House Bill 1164
Texas Writing Pilot Program

## Report to the Governor and the Texas Legislature

 October 23, 2018
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## EXECUTIVE SUMMARY

## Overview

The Texas Writing Pilot was structured to study a more robust, portfolio-style writing assessment, to meaningfully integrate summative assessment into daily instruction. The study included the collection and scoring of a range of student writing samples produced throughout the school year. This included two timed writing samples, two instructional writing process samples from different genres, and an instructional portfolio containing these writing samples. This portfolio assessment pilot is a formative series with the intent of supporting instruction throughout the school year. The aggregated results of the formative assessment series could then be combined to demonstrate student growth over a school year, as a measure of summative achievement.

## Results

The data from the Texas Writing Pilot suggests the following conclusions:

- Scoring correlations and rater-agreement never reached the same level as STAAR, at scale.
- There was inconsistency between Year 1 and Year 2 due to adjustments in the pilot, as would be expected in the development of any new assessment.
- Appropriations to the project derived from STAAR savings supported the initial development of materials and implementation. Limited appropriations to the project reduced the ability for true piloting of a standardized assessment prototype, including possible variables related to training, scoring, and tools used.
- Teachers reported more intentional and focused writing instruction because of the Texas Writing Pilot and generally felt that the prompts were an authentic assessment tool.
- Teachers reported stronger student engagement in their writing instruction.


## Recommendations

The Texas Writing Pilot provided the opportunity to begin an investigation into alternative forms of writing assessment in the state. This work contributed to the following recommendations:

- Materials should be freely available to local education agencies (LEAs) and teachers.
- The Texas Education Agency (TEA) should continue to explore options for what authentic writing assessment could look like, pending appropriations and statute. This would include continuing to investigate the inclusion of automated scoring of writing samples to ensure minimum validity and reliability in scoring. Research suggests that computers can adequately evaluate four of the six recognized traits of writing. Preliminary conversations addressed the possibility of combined automated and human scores, which could be explored in later iterations.

While the Texas Writing Pilot was not able to validate the creation of an alternative writing assessment as outlined, the pilot reflected improved writing instruction. Educators indicated they experienced a more intentional instruction methodology and a more thorough integration of the writing standards throughout the year. The professional development offered through the pilot enhanced teachers' understanding of the Texas Essential Knowledge and Skills (TEKS) and promoted writing throughout the year. It further demonstrates that when adequate resources, time, and training are provided, assessment can be meaningfully incorporated into routine instructional practices so that student learning is reflected accurately and in alignment with classroom instruction.

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## PROJECT OVERVIEW

As required by House Bill (HB) 1164, 84th Texas Legislature, 2015, TEA has conducted a pilot study during the 2016-2017 and 2017-2018 school years to examine alternative methods of assessing writing.

The pilot study included the collection and scoring of a range of student writing samples produced throughout the school year. The writing products completed, submitted, and scored were:

- two timed writing samples completed at the beginning and end of the school year based on a specific writing prompt chosen by each student from a selection of three prompts;
- two instructional writing process samples from different genres-personal narrative, expository, persuasive, or analytic-that include evidence of a writing process from start to finish (e.g., planning, drafting, revising, editing, and publishing); and
- an instructional portfolio containing the writing samples listed above.

Scoring of the student writing samples consisted of several components. Each student's teacher of record initially scored the student samples. Additionally, the samples received a second blind score. The blind scoring included local teachers who were certified to teach reading language arts (RLA). This second round of scoring was coordinated at the local level by participating Education Service Centers (ESCs). Finally, TEA and its contractor, Educational Testing Service (ETS), pulled a sample of the student's writing and provided a third score.

The Texas Writing Pilot assessed writing in grade 4, grade 7, English I, and English II. Similar to other writing portfolio assessment models, the pilot demonstrated that authentic student assessment creates more engagement from students. It also provided educators with the ability to adjust and improve writing instruction with fluidity based upon consistent student evaluations. This report details the pilot's design, educator feedback on varied experiences, and data evaluation for reliability of scoring. Notable work for year two of the pilot are listed below.

- Pilot participation significantly increased from about 1,700 in year one to over 30,000 students in year two.
- Pilot participation included grade 4 students who were assessed in Spanish.
- There were 596 educators recruited in spring 2018 for blind scoring of student samples.
- TEA created and piloted a calibration model for raters to supply standardized training and rigor for accuracy of scoring.
- An interactive online platform and innovative communication avenues using technology promoted efficiency of assignment completion, refinement of performance, and collaboration of leadership.

The correlations and rater-agreement of scoring never reached the same level as STAAR, at scale. While there were some sporadic highlights across the population in both Year 1 and Year 2, the overwhelming
variance in data suggests that training enough educators to be standardized scorers would not be possible. This is generally consistent with the broader literature base on inter-rater reliability and mass scoring. In particular:

- mean rater scores varied across tests and categories.
- the percentage of exact agreement between raters ranged from a low of $28 \%$ to a high of $65 \%$.
- the percentage of adjacent agreement between raters ranged from a low of $72 \%$ to a high of 99\%.
- the correlations between pilot scores and STAAR scores were low to medium.
- the percentage of exact agreement between raters was greatest between Trained Rater 1 and 2 in most cases.

Analysis of the available data, policies, and operational narratives has been synthesized to incorporate the following supportive recommendations for the Texas Legislature.

- Materials from the Texas Writing Pilot should be produced for LEAs and teachers to use for free through the interim assessment portal and through Texas Gateway. These resources should include the rubric, online training materials (modules, documents, and videos), calibration activities, sample annotated student writing, and an implementation guide. This positive outcome will support teachers in transitioning to the use of a meaningful assessment.
- TEA should continue to explore options for what authentic writing assessment could look like, and the impact of strong reading and writing instruction when paired with authentic writing assessments.
- Pending the availability of resources appropriated for the purpose, TEA should begin investigating the inclusion of automated scoring of writing as a way to ensure minimum validity and reliability in scoring, and also control for the costs of implementing a statewide, authentic writing assessment.


## YEAR-ONE OVERVIEW

## YEAR-ONE PARTICIPATION REQUIREMENTS

For year one, three ESCs were selected to participate with a total of seven partnering independent school districts (ISDs). Region 6 (Huntsville) partnered with Calvert ISD and Huntsville ISD. Region 10 (Richardson) partnered with Athens ISD, Garland ISD, and Sunnyvale ISD. Region 16 (Amarillo) partnered with Amarillo ISD and Dumas ISD. In total, 37 teachers and 1,707 students in grade 4, grade 7, English I, and English II participated in year one of the Texas Writing Pilot.

The 2016-2017 school year began with RLA representatives from the partnering ESCs attending a kickoff planning session with TEA and ETS in Austin. Once the writing pilot rubric was established, a companion scoring training was developed to introduce participating teachers to using the rubric to assess student writing. TEA and ETS then facilitated a virtual train-the-trainer session for the three regional ESC representatives who, in turn, held in-person scoring trainings for the participating teachers in their region.

## YEAR-ONE COMMUNICATIONS

Communication and collaboration were high priorities during year one. Representatives from TEA, ETS, and ESCs met weekly to plan and monitor pilot program activities. In addition to the weekly meetings, both TEA and ETS were available for one-on-one support to any ESC, district, or teacher who needed assistance. In this collaborative method, a series of ongoing resources were developed.

## YEAR-ONE WRITING SAMPLES

To establish a baseline of student writing, Timed Writing Sample 1 (TS1) was assigned. Students were given an in-class timed writing assignment and had the opportunity to choose from three prompts. While there was a time restriction (see table below), there was no length restriction. Students were free to write as much as they wanted within the given time limit. TS1 was collected at the end of September 2016.

| GRADE/COURSE | TIME LIMIT |
| :--- | :--- |
| Grade 4 | 35 minutes |
| Grade 7 | 45 minutes |
| English I and English II | 60 minutes |

During the fall and spring semesters, teachers worked on the instructionally based writing process samples with their students. The three process samples—Process Sample 1 (PS1), Process Sample 2 (PS2), and Process Sample 3 (PS3) - were assigned and collected according to the appropriate gradelevel genres outlined in the TEKS.

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Teachers were provided with designated timeframes and submission windows for assigning and collecting each of the three writing-process samples. Participating districts and teachers could choose the writing genre to collect during each submission window. Submission windows and choice of genre gave teachers the flexibility to fully align the assessment with local instruction and scope and sequence of curriculum. In addition, to better support districts in their writing instruction scope and sequence, a decision was made mid-year by the pilot leadership team to collect two rather than three writingprocess samples. These untimed samples were evidence of the student's writing process-planning, drafting, revising, editing, and publishing.

Timed Writing Sample 2 (TS2) was assigned during the last two weeks of April 2017. Students were given a choice of three prompts and the same time allotment and genre as TS1. Both timed samples (TS1 and TS2), as well as the writing-process samples, were compiled into a student's writing portfolio.

## YEAR-ONE MATERIALS AND COLLECTION

Classroom teachers scored the writing pilot samples at varying times throughout the school year using the holistic writing pilot rubric (see Appendix A). With the writing pilot rubric, classroom teachers scored the students' TS1 assignments, the final copy of the writing-process samples, and TS2 assignments upon completion in accordance with the scoring deadlines. All teacher-of-record scores, along with student samples, were submitted throughout the year and stored in the secure writing pilot database.

Year-one student samples were collected and housed according to the decision of each local district. Some teachers asked their students to work on a computer for their assignments while others asked their students to complete the assignments on paper. All samples to be scored for year one were periodically uploaded throughout the year to a secure online database where they could be accessed for blind scoring and TEA scoring.

## YEAR-ONE SCORING

Blind scoring is a type of scoring in which no rater had access to any score from other raters. Blind scoring sessions for writing samples were held in June 2017. During the blind scoring sessions, all students' writing samples and portfolios were scored at the local regional level by teachers certified to teach RLA. Each of the three participating ESCs recruited teachers within their respective regions for the blind scoring. Each regional blind scoring session consisted of three full days. Over the course of the three days, teachers at each regional session scored a random sample of the statewide writing pilot samples and portfolios. All teacher raters completed end-of-scoring-session evaluation surveys providing input on their scoring experience.

A sampling of the writing samples was scored by ETS on behalf of TEA during the last week of June 2017. ETS recruited Texas-based experienced raters who were certified for scoring the State of Texas Assessments of Academic Assessments (STAAR ${ }^{\circledR}$ ). An ETS RLA assessment specialist involved with the writing pilot trained the raters using the same materials and training time used by the ESCs.

## YEAR-ONE DATA ANALYSIS

The year-one analysis showed that across all four writing samples and rater pairs:

- the mean correlations over the rating scores were between 0.37 and 0.58 ;
- the mean percentages of exact agreement over the rating scores ranged from $39 \%$ to $47 \%$ (compared with 57\% to 60\% for STAAR);
- the mean percentages of exact or adjacent agreement over the rating scores ranged from $87 \%$ to $94 \%$; and
- the maximum correlation, exact agreement rate, and exact or adjacent agreement rate across the rating scores were $0.69,61 \%$, and $100 \%$, respectively.

The maximum correlation and exact agreement rate for a class across all subjects, rater pairs, and rating scores were 0.88 and $68 \%$, respectively.

## YEAR-TWO OVERVIEW

Based on feedback from year one of the Texas Writing Pilot, the scope and processes for year two were increased and improved. The progression of activities for year two of the writing pilot are shown below.


## YEAR-TWO PARTICIPATION REQUIREMENTS

The enrollment goal for year two was to double student participation counts to 3,500 by August 2017. Based on the recommendation of participating ESCs, positive public response, and the language of the statute, TEA opened enrollment in December 2017 to a wider audience. The requirement for district participation included submission of pertinent campus information for communications and participant counts. A letter from each current and proposed district signed by both district- and campus-level administration that assured the following was also required.

- A portfolio method of assessment embedded in classroom writing instruction will be compatible with the school's current writing instructional practices.
- There will be participation and support from district- and campus-level administration, including testing and curriculum coordinators, for all aspects of the writing pilot program.
- The district and participating campuses have the technological capacity to commit to an online platform for the submission of student samples.

ESCs were required to sign a letter of continued support for year two that assured the following.

- The ESC will support all pilot activities, including hosting pilot events and supporting any required professional development.
- There will be an institution of higher education (IHE) partner that will work with the ESC to support writing pilot activities.

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Enrollment closed on January 12, 2018 with a significant increase in the number of students-from about 3,500 to over 50,000. However, pilot information was clarified, requiring Public Education Grant (PEG), Improvement Required (IR), and Focus campuses to administer STAAR writing so those test scores could be used as an accountability measure. As a result, participation counts leveled to about 30,000 in February 2018. Participation numbers for year two of the writing pilot are listed below. Specific campuses involved in the writing pilot are listed in Appendix B.

| PARTICIPATION CATEGORY | PARTICIPATION NUMBERS |
| :--- | ---: |
| Region | 16 |
| District | 67 |
| Campus | 233 |
| Grade 4 | $* 15,193$ |
| Grade 7 | 11,559 |
| English I | 1,985 |
| English II | 1,673 |
| Total Number of Students | 30,410 |

*This number includes 724 Spanish writing students

In Year 2, the increase in the number of participants led to delays in implementation, so the full integration into instruction could not occur. For the purposes of data analysis, the study focuses on those who participated over both years. To provide inclusion of grade 4 students who take Spanish writing assessments, TEA partnered with Grand Prairie ISD in January 2018. TEA and ETS conducted an on-site training session at Grand Prairie High School on May 30 and 31, 2018. TEA English Learner (EL) specialists translated the analytic rubric and other pilot materials into Spanish for use in year two of the pilot. EL specialists and educators from Grand Prairie ISD were trained on the new analytic rubric. They were also trained on scoring in the TEA Measuring Upward Progress (TEAMUp) online platform. Raters adjusted the samples to view only grade 4 Spanish responses and provided numeric scores to the responses, as well as commentary on the analytic rubric translation.

## YEAR-TWO COMMUNICATIONS

Because of the influx of participating ESCs and districts in January 2018, an immediate need arose to streamline communications from TEA to participating districts. ESCs played a key role in effective communication. Communication best practices-Clarity of Role, Capacity to Provide Support, and Coherence of Responsibility-were implemented to maintain successful communication among TEA, ESCs, and participating districts.


## Communication Best Practices

- Clarity of Role-key stakeholders know what role they play.

The writing pilot achieved greater levels of success when key stakeholders played the following roles.

- TEA managed the pilot study to ensure the completion of legislative requirements and worked with ETS to develop materials and trainings.
- ESCs designated an RLA specialist who served as a liaison between the TEA and districts.
- District testing coordinators (DTCs) interacted with ESC points of contact to disseminate information to educators.
- Educators provided instruction and scoring of students' writing samples.
- Capacity to Provide Support—key stakeholders have the resources necessary to be successful. TEA requested ESCs serve a key role in an innovative assessment that grew at a rapid pace. In addition to regular work responsibilities, ESCs provided support to numerous districts during year two of the writing pilot. DTCs and educators were also asked to exceed typical work expectations through stringent timelines and trainings. Purposeful time-management and the understanding of one's ability to provide useful support and guidance was a crucial lesson learned from the state to the local level.
- Coherence of Responsibility—key stakeholders know what duties they must perform.

The writing pilot achieved greater levels of success when key stakeholders completed the following actions.

- TEA and ETS created materials and systems, provided training of materials to ESCs, provided training of systems to DTCs and educators, provided technical and instructional support, communicated regularly with ESCs via email, phone, and video-conferencing.
- ESCs were responsible for transmitting pertinent documents and messaging, supplying materials directly from TEA to DTCs, attending required materials trainings, providing training to the districts, and assisting in the recruitment and training of blind scoring participants.

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- DTCs were responsible for delivering educator and student information for enrollment, uploading student and teacher rosters into the online platform, and ensuring timelines for sample uploads and scoring were met.
- Educators followed administration and submission guidelines, attended required rubric and materials training, completed a teacher-of-record survey, ensured writing assessments were administered to students accurately and uploaded or typed directly into the platform, and supplied a teacher of record score.

In addition to implementing communication best practices, TEA used innovative communication tools to aid in effective communication and collaboration. In January 2018, TEA released a Google+ Community for ESCs to access materials and collaborate on trainings. TEA also used Remind 101 announcements for ESCs, district personnel, and educators to receive text message alerts concerning pilot deadlines and scoring reminders. A great amount of effort and planning was required to ensure effective communication among all pilot participants.

## YEAR-TWO WRITING SAMPLES

The processes and procedures regarding the writing samples for year two were similar to year one. To establish a baseline of student writing, the first timed sample, TS1, was assigned. Students were given an in-class timed writing assignment and had the opportunity to choose from three prompts. While there was a time restriction (see table below), there was no length restriction. Students were free to write as much as they wanted within the given time limit. TS1 was collected at the end of September 2017 for original enrollees and in February 2018 for additional mid-year enrollees.

| GRADE/COURSE | TIME LIMIT |
| :--- | :--- |
| Grade 4 | 35 minutes |
| Grade 7 | 45 minutes |
| English I and English II | 60 minutes |

Again, teachers worked on the instructionally based writing process samples with their students. The process samples were assigned and collected according to the appropriate grade-level genres outlined in the TEKS, as well as when campuses enrolled in the pilot.

Teachers were provided with designated timeframes and submission windows for assigning and collecting the writing-process samples (see Appendix C). Participating districts and teachers could choose the writing genre to collect during each submission window. Submission windows and choice of genre gave teachers the flexibility to fully align the assessment with local instruction and scope and sequence of curriculum. These untimed samples were evidence of the student's writing process planning, drafting, revising, editing, and publishing.

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Participating campuses were required to complete the following:

| FOR AUGUST 2017 ENROLLEES | FOR JANUARY 2018 ENR OLLEES |
| :--- | :--- |
| ESC Support Required | ESC Support Recommended |
| Timed Sample 1* | Timed Sample 1* |
| Process Sample 1 | Not required |
| Process Sample 2** | Process Sample 2** |
| Timed Sample 2 | Timed Sample 2 |
| ESC Connection and support through <br> an institution of higher education | ESC Connection and support through <br> an institution of higher education |
| Writing Samples entered or uploaded <br> into TEAMUp Online Platform | Writing Samples entered or uploaded <br> into TEAMUp Online Platform |

* Timed Sample 1-required to show improvement in student writing between two timed samples and necessary for exemption from the STAAR writing assessment requirements under Texas Education Code (TEC), §39.023 (a) and (c). Districts may choose not to submit this sample. However, districts will then be required to participate in the STAAR writing assessments.
** Process Sample 2—student papers must be entered or uploaded into the pilot online platform, TEA Measuring Upward Progress (TEAMUp), to qualify for exemption from the STAAR writing assessment requirements under TEC §39.023 (a) and (c).

Both timed samples (TS1 and TS2), as well as the writing-process sample (PS1 and PS2), were compiled into a student's writing portfolio.

## YEAR-TWO MATERIALS AND COLLECTION

## Analytic Rubric

After the completion of scoring and data analysis for year one, ESCs expressed the need for TEA and participating ESCs to collaboratively develop a rubric that allowed for a more accurate articulation of writing improvement across domains. ESC representatives and participating educators viewed the yearone holistic rubric as too similar to the STAAR rubric. The rationale from these professionals was founded on the basis that:

- a portfolio writing assessment has greater instructional value for educators and students through an analytic rubric using performance measurement across domains;
- an analytic rubric would allow for a better understanding and awareness of domain language when scored by several raters; and
- students would accept ownership of performance and improvement through itemized feedback of writing.

The Texas Writing Pilot analytic rubric (see Appendix D) was developed in November 2017 in coordination with updated scoring training materials. The analytic rubric measured organization, content, language, and conventions, but instead of providing an overall holistic score, each of the four

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domains were scored individually across six or three levels. The rubric shifted from a 4-category holistic rubric to a 6 - or 3-category analytic rubric.

Due to the updated rubric and the amount of time needed to supply a numeric score for 4 domains, TEA decided that a holistic portfolio rubric would not be used for year two. Instead, TEA requested that each teacher of record complete an online survey at the close of the 2017-2018 school year.

ESCs were required to attend trainings provided by TEA and ETS via webinars. ESCs were trained on the implementation of the analytic rubric, how to supply a numeric score, and rationale for the supplied score in the form of annotations. Through a train-the-trainer model, ESCs were then instructed to hold training sessions with educators. Two specific trainings were required: 1) for the teacher of record when he or she entered the pilot program and 2) for the ESC rater to complete blind scoring of student writing samples.


TEA Measuring Upward Progress (TEAMUp) Online Platform
Another improvement for year two was the use of an online platform, TEAMUp, which hosted student samples, scores, and prompts. With TEAMUp, educators no longer had to store paper materials in folders; instead, the system supported students who chose to type and submit their writing samples directly into the online platform. Educators who did not have ready access to computers or chose not to require students to type samples were able to scan handwritten samples and load them into the TEAMUp system.

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The online platform also served as a tool for educator scoring and blind scoring, as well as a source on information for the individualized needs of educators and their students. TEAMUp required DTCs to upload educator and student rosters into the platform. Then, educators were responsible for student sample completion and scoring.

Based on initial feedback from pilot participants, ETS launched a TEAMUp application for iOS devices in March 2018. The TEAMUp app allowed educators or students to upload a handwritten sample through the use of a device's camera directly into the platform. The app then assigned the sample to the student through a numeric or QR code.

ETS provided training of the TEAMUp online platform to DTCs via webinar in August 2017 and January 2018. ETS modeled the online system and access features for DTCs, educators, and students. The training also demonstrated how to upload student and educator rosters, type or upload student samples, and supply a score in the system. This training was recorded, and with the analytic rubric, placed within the TEAMUp online platform for DTCs and educators to reference when necessary.

## YEAR-TWO SCORING

For educators, the TEAMUp online platform housed an educator dashboard, student rosters, samples, and scoring access features. The TEAMUp system monitored student and educator progress for the submissions and scorings of TS1, PS1, PS2, and TS2. The teacher of record supplied numeric domain scores for each student sample and submitted the scores in the TEAMUp system following the timeline of the Genre Guide and Submission Window document.

A different education professional supplied a second blind score for the students' writing samples. ESCs recruited 596 blind scorers or raters from across the state of Texas to score student samples for the Texas Writing Pilot. The raters consisted of educators, RLA content specialists, and higher education partners. Since raters had different skill sets, TEA determined that a standard calibration set similar to ones completed by professional raters for STAAR would regulate and align raters to the skillset of the teacher of record. Therefore, TEA and ETS created and piloted a nonconsequential calibration model for raters to supply standardized training and rigor for accuracy of scoring,

Blind scoring raters attended a training session held by their ESC the week of April 30 through May 4, 2018. During training, a calibration practice set was completed by raters with the instructions that a nonconsequential calibration must be completed in the TEAMUp system to orient the rater.

Once live scoring began in the TEAMUp online platform, ESC raters completed a calibration set of five student samples. If an ESC rater changed a sample type, the calibration was repeated. If an ESC rater changed a grade level, a new calibration set for the coordinating grade level was then completed.

The raters accessed a simplified dashboard where they chose the grade level and sample type. The raters applied a numeric score for each domain or a "Skip" for purposes of illegibility, off-topic, insufficient, blank, or a cry for help. If a "Skip" was applied to a sample, TEA and ETS assessment analysts

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would review the student sample for ratability. DTCs were alerted to a student cry for help writing samples that displayed any troubling content following standard TEA alert paper protocol used for STAAR. Raters were provided feedback by the assessment analysts for other skipped student samples, so a numeric score could be provided.

Raters completed scoring of student samples in the TEAMUp system May 7 through June 1, 2018. With the implementation and capabilities of the TEAMUp system, participating pilot educators were able to score remotely. Each rater was required to complete the scoring of 180 individual student samples to ensure over 90,000 total student samples were successfully scored. TEA, ETS, and ESCs monitored the blind scoring process through weekly scoring reports to ensure deadlines were met. Due to raters' substantial commitment of time and effort, TEA offered 35 hours of Continuing Professional Education (CPE) as compensation to all raters that completed the training and scoring of student samples.

## YEAR-TWO SURVEY RESULTS

For year two of the Texas Writing Pilot, TEA requested that each teacher of record complete an online survey at the close of the 2017-2018 school year. The survey asked teachers about the analytic rubric, the TEAMUp system, and the pilot impact. Teachers from both pilot years were included.

Teachers were asked about their experience working with the new analytic rubric.

- $57 \%$ indicated that they used the analytic rubric during normal class instruction.
- Teachers stated, for example
- "I showed them [the students] how their writings would be scored."
- "I used the rubric to guide my instruction and to explain to students what their goals were."
- "We discussed the language used on the rubric and the differences between the categories in whole group instruction. When conferencing, the student and I would look to the rubric to discuss what revisions or editing needed to be done to improve. The students needed to understand what was expected from them to know how to succeed."
- Educators who did not use the rubric during class instruction indicated that the language of the rubric was not at an appropriate level for a grade 4 student to use.

The survey indicated that most campuses did not allow students to access the TEAMUp system due to the student's age, access to technology, or a desire to ensure materials were complete and submitted without student upload errors.

- $71 \%$ indicated "Not At All" when responding to student input into TEAMUp.
- $69 \%$ frequently performed a teacher upload.

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Educators were asked, "How did your experience with the Texas Writing Pilot change the way you teach writing in the classroom?"

- 35\% selected, "It allowed my classes to focus on their quality of writing through the writing process."
- $20 \%$ selected, "It allowed me to feel better equipped to utilize a writing rubric."
- $24 \%$ selected, "It allowed me to focus on multiple genres of writing instead of just one."

Based on the survey results, educators saw the value in the analytic rubric as a tool for instruction and feedback support. The majority of teachers understood what to use for scoring and agreed that tools and trainings were sufficient. Additionally, they had recommendations for future TEAMUp advancements consisting of comprehensive access for DTCs, as well as an application for Android devices.

## YEAR-TWO DATA ANALYSIS

The purpose of analyzing pilot data was to evaluate the technical quality of the locally scored writing alternative assessment method (i.e., using students' writing portfolios that were produced in the classroom), with the primary technical challenge being ensuring that the ratings (or scores) of writing samples were comparable in meaning when evaluated in different places, at different times, and by different people. After the completion of writing sample collection and scoring, the data to support the analyses had the following characteristics:

- Four writing samples were planned chronologically across the school year: TS1, PS1, PS2, and TS2.
- The final product of each writing sample in a scored student portfolio received a set of four ratings-organization, content, language, and conventions-from each type of rater.
- Three sets of ratings were independently assigned according to the rubric by three types of raters: 1) the classroom teacher of record ("Teacher"); 2) a rater recruited and trained by the ESC ("ESC"); and 3) a qualified Trained Rater ("TR1").
- Teachers were provided scoring training and support by DTCs, ESCs, and TEA.
- ESC raters and qualified trained raters received the same scoring training and support during their organized scoring sessions.
- Additionally, approximately $25 \%$ of the students' writing samples received an additional set of ratings from a qualified trained rater (i.e., double-scored with Trained Rater 2, "TR2") for the purpose of studying the quality of ratings assigned by the trained raters.

Writing samples scored by three or four raters were used in the data analyses. Appendix E lists the demographic distribution of the students included in the data analyses. The table below is a summary of the number of students, campuses, and regions, and their scored data to support analyses.

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A Summary of Students and Writing Samples in Data Analyses

|  | Grade 4 | Grade 7 | English I | English II |
| :--- | ---: | ---: | ---: | ---: |
| Number of Participating Students | 13,875 | 10,298 | 828 | 597 |
| Number of Participating Campuses | 162 | 169 | 13 | 10 |
| Number of Participating Regions | 4 | 4 | 3 | 3 |
| Number of Writing Samples |  |  |  |  |
| Scored by Three Raters | 2,169 | 1,872 | 2,248 | 1,715 |
| Number of Timed Writing Sample 1 | 603 | 890 | 681 | 469 |
| Number of Process Writing Sample 1 | 361 | 383 | 289 | 431 |
| Number of Process Writing Sample 2 | 602 | 237 | 597 | 428 |
| Number of Timed Writing Sample 2 | 603 | 362 | 681 | 387 |
| Number of Writing Samples |  |  |  |  |
| Scored by Two Trained Raters | 517 | 506 | 533 | 407 |
| Number of Timed Writing Sample 1 | 124 | 185 | 147 | 102 |
| Number of Process Writing Sample 1 | 62 | 139 | 73 | 77 |
| Number of Process Writing Sample 2 | 200 | 99 | 165 | 163 |
| Number of Timed Writing Sample 2 | 131 | 83 | 148 | 65 |

The rating quality of the Trained Raters were first evaluated with the double-scored students' writing samples to establish a frame of reference. The ratings by Teachers and by ESC raters were then compared with those produced by the Trained Raters. By way of explanation, the ratings by the Trained Raters were used as the criteria to evaluate how much Teachers and ESC (blind) raters agreed or disagreed with them. In addition to describing the scored data characteristics with summary statistics, other statistics were used to examine the extent to which the ratings assigned by Teachers, ESC raters, and Trained Raters were consistent, as rating reliability indicators. The other statistics consisted of:

- polychoric ${ }^{1}$ correlations (COR);
- quadratic weighted kappa coefficients ${ }^{2}$ (WK);
- percentages of exact agreement (EA); and
- percentages of exact or adjacent agreement (EAA) between ratings.

Key observations are summarized below, and the detailed analyses methodology and results are presented in Appendix F-L.

- The agreement between the two Trained Raters was higher than the agreement between Teachers and Trained Raters, the agreement between ESC and Trained Raters, or the agreement between Teachers and ESC raters. The two trained raters' scores in general were a little more consistent than the scores from the other rater pairs. The score agreement between Teachers

[^0]and Trained Raters was the closest to that between the two Trained Raters on English I among the four grades/courses based on all writing samples. The maximum difference on weighted kappa across the four scores between Teachers versus Trained Raters and the two Trained Raters was 0.17 for grade 4 writing, 0.16 for grade 7 writing, 0.06 for English I, and 0.21 for English II.

- Based on all writing samples, Teachers gave the highest average ratings among the three or four raters across ratings and grades/courses except for organization and conventions ratings in English I, where the average ratings of ESC raters were higher than those of Teachers.
- There were some variations on score agreement among raters by grade/course, rating score, writing sample type, writing prompt, or genre. For example, between Teachers and Trained Raters, 1) the process writing samples within the analytic genre had the best agreement across ratings among the different writing genres in grade 4, while they had the worst agreement in English I; 2) the PS1 writing samples had the best agreement across ratings among the four writing samples in English I, while in grade 4 the agreement on TS1 were the best.

In the table below, the agreement statistics of constructed response ratings based on STAAR grades 4 and 7 writing, English I, and English II administered in spring 2018 were used as another frame of reference (top section). For easy comparisons, the ranges of these statistics based on all writing samples from the Texas Writing Pilot were summarized across rating scores and grades/courses (middle section), and the ranges of these statistics based on each writing sample-TS1, PS1, PS2, and TS2-at the teacher level were also summarized across writing samples, rating scores, and grades/courses (bottom section).

Rater Agreement Statistics: Spring 2018 STAAR and Texas Writing Pilot

|  | N | EA (\%) | EAA (\%) | COR | WK |
| :--- | ---: | ---: | ---: | ---: | ---: |
| STAAR (4-category rubrics) |  |  |  |  |  |
| Grade 4 Writing | 371,894 | 60 | 98 | 0.75 | 0.66 |
| Grade 7 Writing | 388,176 | 62 | 98 | 0.75 | 0.65 |
| English I | 492,315 | 61 | 98 | 0.80 | 0.72 |
| English II | 453,511 | 60 | 98 | 0.78 | 0.71 |
| Texas Writing Pilot: All Writing Samples (6- or 3-category rubrics) |  |  |  |  |  |
| Organization; Content; Language (6-category) | $28-45$ | $72-87$ | $0.37-0.67$ | $0.31-0.63$ |  |
| Conventions (3-category) | $54-65$ | $96-99$ | $0.43-0.66$ | $0.33-0.53$ |  |
| Texas Writing Pilot: Writing Samples by Teacher (6- or 3-category rubrics) |  |  |  |  |  |
| Organization; Content; Language (6-category) | $3-66$ | $23-100$ | $-0.47-0.84$ | $-0.39-0.71$ |  |
| Conventions (3-category) | $14-79$ | $52-100$ | $a$ | $-0.34-0.65$ |  |

Note: EA=percentage of exact agreement; EAA=percentage of exact or adjacent agreement; COR=correlation; and WK=weighted kappa with quadratic weights.
${ }^{\text {a }}$ Correlation was not calculated for conventions score at the class level because of instability with a small sample size.

The overall variance in the data for the writing pilot indicates a higher variance than is allowable for a standardized assessment.

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- Across all ratings, rater pairs, and grades/courses, the agreement statistics of the Texas Writing Pilot ratings with 6-category rubrics were lower than those of the STAAR ratings with 4-category rubrics. The percentages of exact and adjacent agreement of the Texas Writing Pilot ratings (i.e., Conventions) with a 3-category rubric were close to or higher than those of the STAAR ratings with 4-category rubrics, while the correlations and weighted kappa coefficients were still lower.
- In some classes (defined by Teacher), the agreements among Teacher, ESC raters, and Trained Raters were high. The four agreement statistics were calculated at the class level for each writing sample in each grade/course among the ratings from the three raters-the Teacher, the ESC rater, and the Trained Rater-for each class with a sample size of at least 30. These statistics varied widely across classes, grades/courses, writing samples, and raters. However, it is encouraging to observe that the agreements in some classes among Teachers, ESC raters, and Trained Raters were close to or higher than the corresponding STAAR scoring agreement statistics.
- However, the level of agreement referenced above occurred at a low frequency amongst the population and would likely be limited to a small number of overall campuses statewide.

The polyserial correlation was estimated between the scores of each rating and the corresponding spring 2018 STAAR scale scores as external validity indicators for the rating.

- Based on all writing samples, grade 4 pilot students' rating scores across all ratings and raters had low to medium correlations (ranging from 0.25 to 0.54 ) with their spring 2018 STAAR grade 4 writing scale scores.
- Based on all writing samples, grade 7, English I, and English II pilot students' rating scores across all ratings and raters had medium correlations (ranging from 0.41 to 0.69 ) with corresponding spring 2018 STAAR scale scores.

The Texas Writing Pilot analysis results show that overall, the Teachers and ESC raters agreed less often with Trained Raters than Trained Raters agreed with each other. However, it should also be noted that the Texas Writing Pilot had impact on Teachers' behaviors in their classrooms (see section on Survey Results). The pilot demonstrated the meaningful integration of instruction and assessment. Further qualitative research, conducted in pilot districts, and engagement with educators involved in the process identifies increased volume and variety of student writing experiences, increased depth of instruction, and student growth as pilot outcomes that should be recognized. The behavioral impact of the Texas Writing Pilot has shown some evidence of stronger writing instruction in the classroom, which could have a benefit in the long-term writing abilities and engagement of students.

## CONCLUSIONS AND RECOMMENDATIONS

The data from the Texas Writing Pilot suggests the following conclusions:

- The correlations and rater-agreement of scoring never reached the same level as STAAR, at scale. While there were some sporadic highlights across the population in both Year 1 and Year 2, the overwhelming variance in data suggests that appropriately training enough educators to be standardized scorers would not be possible. This is generally consistent with the broader literature base on inter-rater reliability and mass scoring.
- In order to be reliable, the project would need to be longer and allow for expected and typical adjustments and improvements to training materials, rubrics, guidance, formats and infrastructure, as well as interrater reliability comparisons across the years. The development of a new assessment with known requirements typically requires at least three years. The development of such a robust assessment at the scale of Texas would require even more time and a sizeable appropriation or grant.
- The costs of administering a statewide, authentic writing assessment would be prohibitive, even with donated teacher time. Each LEA would need to donate 25-30 hours per teacher, per year. This would account for training, calibration activities, and scoring. Cost-reduction measures such as the exploration of computer-based scoring, would significantly alleviate cost concerns if the assessment were ever to launch at scale.
- There were a number of possible variables that could have been tested related to training, structuring the study, and creating additional resources. However, no funding was appropriated, and decisions were made to accommodate the resources available.
- Teachers reported more intentional and focused writing instruction because of the Texas Writing Pilot. Further, teachers generally felt that the prompts were a more authentic assessment tool than the current version of STAAR.
- Teachers reported stronger student engagement, as a result of more intentional teaching.

The Texas Writing Pilot provided the opportunity to begin an investigation into alternative forms of writing assessment in Texas. Data collected related to student performance, as well as the implementation of the pilot from educators all contributed to the following recommendations:

- Free materials for all LEAs to use for instruction. Materials from the Texas Writing Pilot should be produced for LEAs and teachers to use for free through the interim assessment portal and through Texas Gateway. These resources should include the rubric, online training materials (modules, documents, and videos), calibration activities, sample annotated student writing, and an implementation guide.
- Continue to explore further options. TEA should continue to explore options for what authentic writing assessment could look like, and the impact of strong reading and writing instruction when paired with authentic writing assessments.

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- Consider use of additional appropriations. Pending the availability of resources appropriated for the purpose, TEA should begin investigating the inclusion of automated scoring of writing, as a way to ensure minimum validity and reliability in scoring, and also control for the costs of implementing a statewide, authentic writing assessment.
- Timely, definitive guidance for implementation. Determining pilot structures, such as participant selection, writing samples to be collected, metrics to be used for student feedback, and the selection of a system for collecting student work in advance of implementation, allows for proactive planning and communication.
- Prompt, effective professional development. While professional development was designed and provided for ESC representatives, district leaders, campus administrators, and campus teachers involved in the statewide pilot study, there is a need for timely training, as well as increased time and depth of training related to the submission of student writing samples and teacher scoring of student responses. Due to the daily expectations of campus administrators and teachers, the provision of training in advance of the school year would allow time for campus personnel to incorporate pilot study expectations into instructional sequences. Increased time and depth of training are recommended to increase teacher knowledge of scoring instruments to increase teacher rating reliability. Providing an opportunity for educators to engage in critical conversations related to scoring will also support increased reliability.
- Determine sites for continued pilot work. Use data from the pilot to determine possible sites for continued development of a portfolio-based assessment model and utilize data from teachers with higher exact agreements and correlations. A smaller number of pilot sites would allow for ongoing collaboration regarding implementation and training needs.
- Consider integrity of multiple assessment model. If pilot districts are asked to implement both STAAR and a portfolio-based method, TEA should consider the integrity of the portfolio-based assessment and whether districts involved in the pilot are at risk of conflicting instructional practices. TEA should consider submission of a student timed writing sample and/or process sample as their state writing assessment.

While the Texas Writing Pilot was not able to validate the creation of an alternative writing assessment as outlined, the pilot reflected improved writing instruction. Educators indicated they experienced a more intentional instruction methodology and a more thorough integration of the writing standards throughout the year. Although the pilot did not prove to be a valid assessment instrument, it did demonstrate the importance of embedding strong assessment intro instruction, reflecting authenticity in daily classroom activities, and more clearly integrating instruction and the state assessment. The professional development offered through the pilot enhanced teacher understanding of the TEKS and promoted writing throughout the year. It further demonstrates that when adequate financial resources, time, and training are appropriated, assessment can be meaningfully incorporated into routine instructional practices so that student learning is reflected accurately and in alignment with classroom instruction.

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## APPENDIX A: YEAR-ONE TEXAS WRITING PILOT HOLISTIC RUBRIC (2016-2017)

## Score Point 4 (Accomplished): The response will contain most of the following characteristics.

| Organizational Structure and Focus | Content/Development of Ideas | Use of Language | Conventions |
| :---: | :---: | :---: | :---: |
| - Structure is clearly appropriate to the purpose. <br> - The writer establishes and maintains a strong focus. <br> - Strong, meaningful transitions and idea-to-idea, sentence-to-sentence, and paragraph-to-paragraph connections are clearly evident. | - Specific, well chosen, and relevant details are clearly evident. <br> - Ideas are clearly, thoughtfully, and effectively expressed and developed. | - Language and word choice are purposeful, precise, and enhance the writing. <br> - Sentences are purposeful, wellconstructed, and controlled. <br> - Use of an authentic, expressive voice is clearly reflected throughout the writing. | - Although minor errors may be evident, they do not detract from the fluency or clarity of the writing. <br> - Use of grade-appropriate spelling, capitalization, punctuation, grammar, and usage conventions is consistently demonstrated. |

## Score Point 3 (Satisfactory): The response will contain most of the following characteristics.

| Organizational Structure and Focus | Content/Development of Ideas | Use of Language | Conventions |
| :---: | :---: | :---: | :---: |
| - Structure is, for the most part, appropriate to the purpose. <br> - The writer, for the most part, establishes and maintains focus. <br> - Sufficient use of transitions and idea-to-idea, sentence-to-sentence, and paragraph-to-paragraph connections is somewhat evident. | - Specific, appropriate, and relevant details are somewhat evident. <br> - Ideas are sufficiently expressed and developed. | - Language and word choice are, for the most part, clear, concise, and somewhat enhance the writing. <br> - Sentences are somewhat purposeful and adequately constructed and controlled. <br> - Authentic voice is somewhat evident and appropriately reflected throughout the writing. | - Minor errors create some disruption in the fluency or clarity of the writing. <br> - Use of grade-appropriate spelling, capitalization, punctuation, grammar, and usage conventions is adequately demonstrated. |


| Score Point 2 (Basic): The response will contain most of the following characteristics. |  |  |  |
| :---: | :---: | :---: | :---: |
| Organizational Structure and Focus | Content/Development of Ideas | Use of Language | Conventions |
| - Structure is evident but may not always be appropriate to the purpose. <br> - The writer does not effectively establish or maintain focus and may include irrelevant information. <br> - Use of transitions, idea-to-idea, sentence-to-sentence, and paragraph-to-paragraph connections is minimal or inconsistent. | - Specific and relevant details are too brief, too vague, or are not clearly evident. <br> - Ideas are minimally expressed and developed. | - Language and word choice are general, imprecise, or inappropriate and do not sufficiently enhance the writing. <br> - Sentences are awkward or only somewhat controlled. <br> - Authentic voice is inconsistent throughout the writing. | - Distracting errors create moderate disruptions in the fluency or clarity of the writing. <br> - Use of grade-appropriate spelling, capitalization, punctuation, grammar, and usage conventions is partially demonstrated. |
| Score Point 1 (Very Limited): The response will contain most of the following characteristics. |  |  |  |
| Organizational Structure and Focus | Content/Development of Ideas | Use of Language | Conventions |
| - Structure is inappropriate to the purpose. <br> - Focus is not established or maintained. <br> - Transitions, idea-to-idea, sentence-tosentence, and paragraph-to-paragraph connections are not evident. | - Details are inappropriate or missing. <br> - Ideas are missing or not expressed or developed. | - Language and word choice is limited or missing and does not enhance the writing. <br> - Sentences are simplistic or uncontrolled. <br> - Authentic voice is missing or inappropriate to the writing task. | - Serious and persistent errors create disruptions in the fluency or clarity of the writing. <br> - Little to no use of gradeappropriate spelling, capitalization, punctuation, grammar, and usage conventions is demonstrated. |

## APPENDIX B: YEAR-TWO PARTICPANTS

Below is a list of the regions, districts, and campuses that completed year two of the Texas Writing Pilot.

| ESC | DISTRICT | CAMPUS |
| :---: | :---: | :---: |
| REGION 3 |  |  |
| 3 | Woodsboro ISD | Woodsboro Elementary |
| REGION 4 |  |  |
| 4 | Aldine ISD | Aldine Elementary |
| 4 | Aldine ISD | Aldine High School |
| 4 | Aldine ISD | Smith Elementary |
| 4 | Aldine ISD | Thompson Elementary |
| 4 | Aldine ISD | Hambrick Middle School |
| 4 | Aldine ISD | Shotwell Middle School |
| 4 | Aldine ISD | Davis 9th Grade School |
| 4 | Aldine ISD | MacArthur High School |
| 4 | Barbers Hill ISD | Barbers Hill Elementary School North |
| 4 | Barbers Hill ISD | Barbers Hill Elementary School South |
| 4 | Barbers Hill ISD | Barbers Hill Middle School North |
| 4 | Barbers Hill ISD | Barbers Hill Middle School South |
| 4 | Columbia-Brazoria ISD | Wild Peach Elementary |
| 4 | Columbia-Brazoria ISD | West Columbia Elementary |
| 4 | Columbia-Brazoria ISD | Barrow Elementary |
| 4 | Columbia-Brazoria ISD | West Brazos Junior High |
| 4 | Deer Park ISD | W.A. Carpenter Elementary |
| 4 | Deer Park ISD | J.P. Dabbs Elementary |
| 4 | Deer Park ISD | Deepwater Elementary |
| 4 | Deer Park ISD | Deer Park Elementary |
| 4 | Deer Park ISD | Fairmont Elementary |
| 4 | Deer Park ISD | San Jacinto Elementary |
| 4 | Klein ISD | Bernshausen Elementary |
| 4 | Klein ISD | Eiland Elementary |
| 4 | Klein ISD | Epps Island Elementary |
| 4 | Klein ISD | Greenwood Forest Elementary |
| 4 | Klein ISD | Kaiser Elementary |
| 4 | Klein ISD | Nitsch Elementary |
| 4 | Klein ISD | McDougle Elementary |
| 4 | Klein ISD | Mittelstadt Elementary |
| 4 | Klein ISD | Wunderlich Intermediate |
| 4 | Klein ISD | Klein Intermediate |
| 4 | Spring Branch ISD | Cedar Brook Elementary |
| 4 | Spring Branch ISD | Thornwood Elementary |
| REGION 5 |  |  |
| 5 | Kirbyville CISD | Kirbyville Elementary |
| 5 | Kountze ISD | Kountze Intermediate |
| REGION 6 |  |  |
| 6 | Calvert ISD | Calvert School |


| ESC | DISTRICT | CAMPUS |
| :---: | :---: | :---: |
| 6 | Splendora ISD | Greenleaf Elementary |
| 6 | Splendora ISD | Peach Creek Elementary |
| 6 | Splendora ISD | Piney Woods Elementary |
| 6 | Splendora ISD | Splendora Junior High |
| REGION 7 |  |  |
| 7 | Fruitvale ISD | Hallie Randall Elementary |
| 7 | Fruitvale ISD | Fruitvale Middle School |
| 7 | Hawkins ISD | Hawkins Elementary |
| 7 | Hawkins ISD | Hawkins Middle School |
| 7 | Longview ISD | Judson STEAM Academy |
| 7 | Longview ISD | South Ward Elementary |
| 7 | Mineola ISD | Mineola Middle School |
| 7 | Quitman ISD | Quitman Elementary |
| 7 | Quitman ISD | Quitman Junior High School |
| 7 | Tyler ISD | Bell Elementary |
| 7 | Tyler ISD | Birdwell Elementary |
| 7 | Tyler ISD | Clarkston Elementary |
| 7 | Tyler ISD | Owens Elementary |
| 7 | Tyler ISD | Rice Elementary |
| 7 | Westwood ISD | Westwood Primary |
| 7 | Westwood ISD | Westwood Elementary |
| REGION 8 |  |  |
| 8 | Jefferson ISD | Jefferson Elementary |
| 8 | Maud ISD | Maud Elementary |
| 8 | New Boston ISD | Crestview Elementary |
| 8 | New Boston ISD | New Boston Middle School |
| 8 | New Boston ISD | New Boston High School |
| REGION 9 |  |  |
| 9 | Wichita Falls ISD | Cunningham School |
| 9 | Wichita Falls ISD | Southern Hills Elementary |
| 9 | Wichita Falls ISD | Fain Elementary |
| REGION 10 |  |  |
| 10 | Athens ISD | Central Athens School |
| 10 | Athens ISD | South Athens Elementary |
| 10 | Athens ISD | Bel Air Elementary |
| 10 | Athens ISD | Athens Middle School |
| 10 | Blue Ridge ISD | Blue Ridge Elementary |
| 10 | Celeste ISD | Celeste Elementary |
| 10 | Crandall ISD | Barbara Walker Elementary |
| 10 | Crandall ISD | Nola Kathryn Wilson Elementary |
| 10 | Crandall ISD | W.A. Martin Elementary |
| 10 | Crandall ISD | Hollis T. Dietz Elementary |
| 10 | Crandall ISD | Crandall Middle School |
| 10 | Frisco ISD | Christie Elementary |
| 10 | Frisco ISD | Scott Elementary |


| ESC | DISTRICT | CAMPUS |
| :---: | :---: | :---: |
| 10 | Frisco ISD | Shawnee Trail Elementary |
| 10 | Frisco ISD | Miller Elementary |
| 10 | Garland ISD | Bradfield Elementary |
| 10 | Garland ISD | Club Hill Elementary |
| 10 | Garland ISD | Shorehaven Elementary |
| 10 | Garland ISD | Williams Elementary |
| 10 | Garland ISD | Kimberlin Academy |
| 10 | Garland ISD | Sellers Middle School |
| 10 | Garland ISD | Lyles Middle School |
| 10 | Garland ISD | Sam Houston Middle School |
| 10 | Garland ISD | O'Banion Middle School |
| 10 | Grand Prairie ISD | Stephen F. Austin Elementary |
| 10 | Grand Prairie ISD | James Bowie Elementary |
| 10 | Grand Prairie ISD | David Daniels Elementary Academy of Science \& Math |
| 10 | Grand Prairie ISD | Florence Hill Elementary |
| 10 | Grand Prairie ISD | Ellen Ochoa STEM Academy at Ben Milam Elementary |
| 10 | Grand Prairie ISD | Dwight D. Eisenhower Elementary |
| 10 | Grand Prairie ISD | Sam Rayburn Elementary STEAM Academy |
| 10 | Grand Prairie ISD | Lorenzo De Zavala Environmental Science Academy |
| 10 | Grand Prairie ISD | Suzanna Dickinson Elementary |
| 10 | Grand Prairie ISD | Garner Fine Arts Academy |
| 10 | Grand Prairie ISD | Barbara Bush Elementary |
| 10 | Grand Prairie ISD | Colin Powell Elementary |
| 10 | Grand Prairie ISD | Hector P. Garcia Elementary |
| 10 | Grand Prairie ISD | Sallye R. Moore Elementary |
| 10 | Grand Prairie ISD | Ervin C. Whitt Elementary |
| 10 | Grand Prairie ISD | Juan N. Seguin Elementary |
| 10 | Grand Prairie ISD | Thurgood Marshall Leadership Academy |
| 10 | Grand Prairie ISD | Mike Moseley Elementary |
| 10 | Grand Prairie ISD | Hobbs Williams Elementary |
| 10 | Grand Prairie ISD | Robert E. Lee Elementary |
| 10 | Grand Prairie ISD | School for the Highly Gifted |
| 10 | Grand Prairie ISD | William B. Travis World Language Academy |
| 10 | Grand Prairie ISD | Grand Prairie Fine Arts Academy |
| 10 | Grand Prairie ISD | Grand Prairie Collegiate Institute |
| 10 | Grand Prairie ISD | John Adams Middle School |
| 10 | Grand Prairie ISD | Andrew Jackson Middle School |
| 10 | Grand Prairie ISD | Harry S. Truman Middle School |
| 10 | Grand Prairie ISD | Ronald W. Reagan Middle School |
| 10 | Grand Prairie ISD | James Fannin Middle School |
| 10 | Grand Prairie ISD | YMLA at John F. Kennedy Middle School |
| 10 | Grand Prairie ISD | YWLA at Bill Arnold |
| 10 | Prosper ISD | John A. Baker Elementary |
| 10 | Prosper ISD | Cynthia Cockrell Elementary |
| 10 | Prosper ISD | Judy Rucker Elementary |
| 10 | Prosper ISD | Steve Folsom Elementary |
| 10 | Prosper ISD | Light Farms Elementary |


| ESC | DISTRICT | CAMPUS |
| :---: | :---: | :---: |
| 10 | Prosper ISD | Windsong Ranch Elementary |
| 10 | Prosper ISD | Jim and Betty Hughes Elementary |
| 10 | Prosper ISD | Reynolds Middle School |
| 10 | Prosper ISD | Lorene Rogers Middle School |
| 10 | Royse City ISD | Royse City Middle School |
| 10 | Royse City ISD | Anita Scott Elementary |
| 10 | Royse City ISD | William R. Fort Elementary |
| 10 | Royse City ISD | Miss May Vernon Elementary |
| 10 | Sunnyvale ISD | Sunnyvale Elementary |
| 10 | Sunnyvale ISD | Sunnyvale Middle School |
| 10 | Van ISD (through region 7) | Van Middle School |
| 10 | Van ISD (through region 7) | Van Junior High |
| REGION 11 |  |  |
| 11 | Burleson ISD | Academy at Nola Dunn |
| 11 | Burleson ISD | Mound Elementary |
| 11 | Burleson ISD | Norwood Elementary |
| 11 | Burleson ISD | Jack Taylor Elementary |
| 11 | Burleson ISD | William Stribling Elementary |
| 11 | Burleson ISD | Bransom Elementary |
| 11 | Burleson ISD | Judy Hajek Elementary |
| 11 | Burleson ISD | Ann Brock Elementary |
| 11 | Burleson ISD | Irene Clinkscale Elementary |
| 11 | Burleson ISD | Hughes Middle School |
| 11 | Burleson ISD | Nick Kerr Middle School |
| 11 | Burleson ISD | STEAM Middle School |
| 11 | Cleburne ISD | A.D. Wheat Middle School |
| 11 | Cleburne ISD | Coleman Elementary |
| 11 | Cleburne ISD | Marti Elementary |
| 11 | Cleburne ISD | Gerard Elementary |
| 11 | Eagle Mountain-Saginaw ISD | Bryson Elementary |
| 11 | Eagle Mountain-Saginaw ISD | Gililland Elementary |
| 11 | Eagle Mountain-Saginaw ISD | Willow Creek Elementary |
| 11 | Eagle Mountain-Saginaw ISD | Ed Willkie Middle School |
| 11 | Eagle Mountain-Saginaw ISD | Wayside Middle School |
| 11 | Godley ISD | Godley Intermediate School |
| 11 | Godley ISD | Godley Middle School |
| 11 | Granbury ISD | Acton Elementary |
| 11 | Granbury ISD | Brawner Intermediate School |
| 11 | Granbury ISD | Mambrino School |
| 11 | Granbury ISD | Nettie Baccus Elementary |
| 11 | Granbury ISD | Oak Wood School |
| 11 | Granbury ISD | Acton Middle School |
| 11 | Granbury ISD | Granbury Middle School |
| REGION 12 |  |  |
| 12 | Malone ISD | Malone Elementary |
| REGION 13 |  |  |


| ESC | DISTRICT | CAMPUS |
| :---: | :---: | :---: |
| 13 | Dripping Springs ISD | Sycamore Springs Elementary |
| 13 | Dripping Springs ISD | Rooster Springs Elementary |
| 13 | Dripping Springs ISD | Walnut Springs Elementary |
| 13 | Dripping Springs ISD | Dripping Springs Elementary |
| 13 | Eanes ISD | Valley View Elementary |
| 13 | Eanes ISD | Forest Trail Elementary |
| 13 | Eanes ISD | Eanes Elementary |
| 13 | Eanes ISD | Cedar Creek Elementary |
| 13 | Eanes ISD | Bridge Point Elementary |
| 13 | Eanes ISD | Barton Creek Elementary |
| REGION 14 |  |  |
| 14 | Moran ISD | Moran School |
| 14 | Roscoe Collegiate ISD | Roscoe Elementary |
| 14 | Roscoe Collegiate ISD | Roscoe Collegiate High School |
| REGION 15 |  |  |
| 15 | Winters ISD | Winters Elementary |
| 15 | Winters ISD | Winters Junior High |
| REGION 16 |  |  |
| 16 | Amarillo ISD | Mesa Verde |
| 16 | Amarillo ISD | Humphries Highland |
| 16 | Amarillo ISD | Tascosa High School |
| 16 | Amarillo ISD | Palo Duro High School |
| 16 | Amarillo ISD | Travis Middle School |
| 16 | Borger ISD | Borger Middle School |
| 16 | Dalhart ISD | Dalhart Jr. High School |
| 16 | Dimmitt ISD | Dimmitt Middle School |
| 16 | Dumas ISD | Dumas High School |
| 16 | Kress ISD | Kress Elementary |
| 16 | Kress ISD | Kress Jr and Sr High School |
| 16 | Lefors ISD | Lefors School |
| 16 | Memphis ISD | Memphis High School |
| 16 | Memphis ISD | Memphis Middle School |
| 16 | Memphis ISD | Austin Elementary |
| 16 | Panhandle ISD | Panhandle Elementary |
| 16 | Plemons-Stinnett-Phillips CISD | West Texas Elementary |
| 16 | Plemons-Stinnett-Phillips CISD | West Texas Middle School |
| 16 | River Road ISD | Rolling Hills Elem/River Road Middle School |
| 16 | Spring Creek ISD | Spring Creek School |
| 16 | Sunray ISD | Sunray Elementary |
| 16 | Sunray ISD | Sunray Middle School |
| REGION 19 |  |  |
| 19 | Dell City ISD | Dell City School |
| 19 | Sierra Blanca ISD | Sierra Blanca School |
| REGION 20 |  |  |
| 20 | East Central ISD | Heritage Middle School |


| ESC | DISTRICT | CAMPUS |
| :--- | :--- | :--- |
| 20 | Jubilee Academy | Jubilee-Lake View University Prep, Jubilee Academies |
| 20 | Kerrville ISD | Tom Daniels Elementary School |
| 20 | Kerrville ISD | Starkey Elementary School |
| 20 | Northside ISD (015915) | Leon Valley Elementary |
| 20 | Northside ISD (015915) | Oak Hills Terrace Elementary |
| 20 | North East ISD | Garner Middle School |
| 20 | North East ISD | Larkspur Elementary |
| 20 | North East ISD | Ridgeview Elementary |
| 20 | School of Excellence in Education | Dr. Harmon Kelley Elementary |
| 20 | School of Excellence in Education | Dr. David Walker Elementary |
| 20 | School of Excellence in Education | Dr. Paul Saenz Junior High |
| 20 | School of Excellence in Education | Milton B. Lee Academy |
| 20 | Southwest ISD | Hidden Cove Elementary |
| 20 | Southwest ISD | Sun Valley Elementary |
| 20 | Southwest ISD | Spicewood Park Elementary |
| 20 | Southwest ISD | Bob Hope Elementary |
| 20 | Southwest ISD | Indian Creek Elementary |
| 20 | Southwest Preparatory School | SPS-Northwest |
| 20 | Southwest Preparatory School | Southwest Preparatory School |
| 20 | Southwest Preparatory School | SP Southeast Campus |
| 20 | Southwest Preparatory School | SP Northwest Elementary |
| 20 | Southwest Preparatory School | New Directions |
| 20 | Southwest Preparatory School | Seguin Elementary |

## APPENDIX C: YEAR-TWO GENRE GUIDE AND SUBMISSION WINDOWS

The Genre Guide and Submission Windows document served as a guideline for districts and regions to follow. Dates were extended and amended in January 2018, for mid-year additions to the Texas Writing Pilot.

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| Sample | $4^{\text {th }}$ Grade | $7^{\text {th }}$ Grade | English I | English II |
| :---: | :---: | :---: | :---: | :---: |
| Timed Sample I | Assignment window: 09/18/17-10/06/17 <br> Upload deadline: 10/06/17 <br> Scores entered deadline: 10/27/17 <br> Mid-Year Additions: 1/29/18-2/16/18 (EXTENDED to 2/23/18) <br> Mid- Year Additions: 2/16/18 (EXTENDED to 2/23/18) <br> Mid- Year Additions: 3/9/18 |  |  |  |
| Genre | Personal Narrative | Expository | Expository | Persuasive |
| Process Sample 1 | Assignment window: 1/29/18-2/23/18 (UPDATED)Mid- Year Additions NOT APPLICABLE Upload deadline: 2/23/18 <br> Scores entered deadline: 3/9/18 |  |  |  |
| Genre | District Choice* Persuasive, Expository, or Analytic | District Choice* Persuasive, Personal Narrative, or Analytic | District Choice* Persuasive, Personal Narrative, or Analytic | District Choice* Expository, Personal Narrative, or Analytic |
| Process Sample 2 | Assignment window: 02/05/18-3/30/18 Upload deadline: 03/30/18 Scores entered deadline: 04/27/18 |  |  |  |
| Genre | District Choice* Persuasive, Expository, or Analytic | District Choice* Persuasive, Personal Narrative, or Analytic | District Choice* Persuasive, Personal Narrative, or Analytic | District Choice* Expository, Personal Narrative, or Analytic |
| Timed Sample II | Assignment window: 03/28/18-4/27/18 <br> Upload deadline: 04/30/18 <br> Scores entered deadline: 05/18/18 |  |  |  |
| Genre | Personal Narrative | Expository | Expository | Persuasive |
| *The genre selected for process samples should be different for each sample and should follow an individual district's scope and sequence. |  |  |  |  |
| Below are possible pieces of writing process evidence to include as part of the Process Samples in students' portfolios. These items should follow the natural writing process that teachers already use in classroom instruction. |  |  |  |  |
| Possible Evidence for Process Sample 1 and 2 | $4^{\text {th }}$ Grade | $7^{\text {th }}$ Grade | English I | English II |
|  | Prewriting: Brainstorm, web, graphic organizer, journal entry, etc. <br> Drafting, Revising and Editing: <br> First draft, teacher conference form, peer editing forms, selfediting forms, secondary drafts, etc. <br> Final Products: <br> Final copy, selfreflection, etc. | Prewriting: Brainstorm, web, graphic organizer, journal entry, outline, etc. <br> Drafting, Revising and Editing: <br> First draft, teacher conference form, peer editing forms, selfediting forms, secondary drafts, etc. <br> Final Products: <br> Final copy, selfreflection, etc. | Prewriting: Brainstorm, web, graphic organizer, journal entry, outline, etc. <br> Drafting, Revising and Editing: <br> First draft, teacher conference form, peer editing forms, selfediting forms, secondary drafts, etc. <br> Final Products: <br> Final copy, selfreflection, etc. | Prewriting: Brainstorm, web, graphic organizer, journal entry, outline, etc. <br> Drafting, Revising and Editing: <br> First draft, teacher conference form, peer editing forms, selfediting forms, secondary drafts, etc. <br> Final Products: <br> Final copy, selfreflection, etc. |

## APPENDIX D: YEAR-TWO TEXAS WRITING PILOT ANALYTIC RUBRIC (2017-2018)

| Very Limited | Limited | Basic | Satisfactory | Accomplished | Exceptional |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 | 6 |
| ORGANIZATION: STRUCTURE, FOCUS, AND PROGRESSION |  |  |  |  |  |
| The composition does not include a central idea, thesis, or theme. | The composition includes a central idea, thesis, or theme that is mostly unclear. | The central idea, thesis, or theme is somewhat clear. | The central idea, thesis, or theme is clear. | The central idea, thesis, or theme is clear and skillfully presented. | The central idea, thesis, or theme is clear and thoughtful. |
| The composition lacks an organizational structure. <br> The composition lacks a central focus and is therefore incoherent | An organizational structure may be evident, but it does not support the development of the central idea, thesis, or theme. | The organizational structure only minimally supports the development of the central idea, thesis, or theme. | appropriate and adequately supports the development of the central idea, thesis, or theme. | The organizational structure is appropriate and effectively supports the development of the central idea, thesis, or theme. | The organizational structure enhances the development of the central idea, thesis, or theme. |
| and not unified. <br> The composition includes no evidence of connections between | The focus is inconsistent, causing the composition to be mostly incoherent and not unified. | The focus is at times inconsistent, causing lapses in the composition's coherence and unity. | The focus is generally consistent and clear, helping the composition remain mostly coherent and unified. | The focus is consistent and clear throughout, contributing to the composition's sustained coherence and unity. | The focus is consistent and clear throughout, contributing to the composition's sustained coherence and unity. |
|  | The sentences, paragraphs, and/or ideas are not clearly connected. <br> Repetition of ideas causes serious disruptions in the flow of the essay. | The sentences, paragraphs, and/or ideas are connected by mechanical, formulaic transitions. <br> Some repetition of ideas causes minor disruptions in the flow of the essay. | The sentences, paragraphs, and/or ideas are connected by logical and mostly effective transitions. | The sentences, paragraphs, and/or ideas are connected by logical, effective transitions. | The sentences, paragraphs, and/or ideas are connected by purposeful, logical, and highly effective transitions. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| CONTENT: SUPPORT AND ELABORATION |  |  |  |  |  |
| The composition includes few, if any, details and/or examples related to the topic or theme. <br> The composition may be too brief to reflect an understanding of the writing purpose and/or communicate the writer's intent. | The composition includes details and examples that are list-like and/or too vague to adequately develop the topic or theme. <br> The composition reflects an inadequate understanding of the writing purpose and/or is unable to communicate the writer's intent. | The composition includes mostly relevant details and examples, but they are too general or partially presented to adequately develop the topic or theme. <br> The composition reflects some understanding of the writing purpose and/or only somewhat communicates the writer's intent. | The composition includes relevant details and examples that adequately develop the topic or theme. <br> The composition reflects an adequate understanding of the writing purpose and/or adequately communicates the writer's intent. | The composition includes relevant, specific details and examples that clearly develop the topic or theme. <br> The composition reflects a thorough understanding of the writing purpose and/or strongly communicates the writer's intent. | The composition includes details and examples that are specific, well chosen, relevant, and enhance the development of the topic or theme. <br> The composition reflects a thorough and insightful understanding of the writing purpose and/or clearly communicates the writer's intent in ways that are original and thoughtful. |


| Very Limited | Limited | Basic | Satisfactory | Accomplished | Exceptional |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 | 6 |
| LANGUAGE |  |  |  |  |  |
| The composition includes limited diction that is frequently used incorrectly and does not contribute to creating an appropriate/effective tone and style. <br> Literary and/or rhetorical devices are typically missing. <br> The composition includes sentences that are mostly unclear and illogical. <br> Sentences are choppy, irregular, awkward, or incomplete and do not establish the relationships among ideas. | The composition includes simplistic diction that only minimally contributes to the writer's tone and style. <br> Literary and/or rhetorical devices, when used, do not contribute to the quality or effectiveness of the composition. <br> The composition includes sentences that are at times unclear and illogical. <br> Sentences are mostly simple, may include inappropriate fragments, and may not establish the relationships among ideas. | The composition includes sometimes vague or general diction that inconsistently contributes to the writer's tone and style. <br> Literary and/or rhetorical devices, when used, are somewhat effective in contributing to the quality or effectiveness of the composition. <br> The composition includes sentences that are mostly clear and logical. <br> Sentences and phrases may at times be awkward or only somewhat controlled, occasionally weakening the relationships among ideas. | The composition includes mostly appropriate diction that satisfactorily contributes to the writer's tone and style. <br> Literary and/or rhetorical devices, when used, are effective and contribute to the quality or effectiveness of the composition. <br> The composition includes sentences that are consistently clear and logical. <br> Sentences and phrases are adequately controlled and usually establish the relationships among ideas. | The composition includes specific diction that consistently contributes to the writer's tone and style. <br> Literary and/or rhetorical devices, when used, are engaging, and contribute to the quality or effectiveness of the composition. <br> The composition includes sentences that are consistently clear, logical, and varied in structure. <br> Sentences and phrases are skillfully controlled and effectively establish the relationships among ideas. | The composition includes purposeful and precise diction that strongly contributes to the writer's tone andstyle. <br> Literary and/or rhetorical devices, when used, are effective, engaging, original, and enhance the quality or effectiveness of the composition. <br> The composition includes sentences that are consistently clear, logical, and varied in structure. <br> Sentences and phrases are sophisticated in construction and strongly establish the relationships among ideas. |
|  |  | 4 |  |  |  |
| CONVENTIONS |  |  |  |  |  |
| The composition includes a variety control of basic writing conventions punctuation, grammar, and usage). <br> The composition may require exten or may be too brief to evaluate for <br> The composition demonstrates limit boundaries. <br> If included, paragraph breaks interf only a basic understanding of their | f errors reflecting limited or no (spelling, capitalization, <br> ive editing for conventions errors ontrol of conventions. <br> ed or no control of sentence <br> re with meaning or demonstrate us. | The composition demonstrates su writing conventions (spelling, cap and usage). <br> The composition may require mi conventions errors. <br> The composition demonstrates $r$ boundaries. <br> If included, paragraph breaks de understanding of their use. | sufficient control of standard pitalization, punctuation, grammar, <br> nor to moderate editing for <br> reasonable control of sentence <br> monstrate adequate | The composition demonstrates co writing conventions (spelling, capi grammar, and usage). <br> The composition requires minor, errors. <br> The composition may contain pur conventions for effect. <br> The composition demonstrates co boundaries, enhancing the compo <br> If included, paragraph breaks are | sistent command of standard alization, punctuation, <br> any, editing for conventions <br> oseful manipulation of <br> sistent control of sentence ition. <br> ell controlled and purposeful. |



| 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LENGUAJE |  |  |  |  |  |
| -a composicion Incluye un vocabulario limitado que recuentemente se utiliza de manera incorrecta y no contribuye a crear un fono y estlo adecuado/efectivo. | -a composicion Incluye un vocabulario simple que solo contribuye de manera minima al tono y estilo del escritor. | a composicion en ocasiones ncluye un vocabulario vago o general que contribuye de manera inconsistente al tono y estllo del escritor. | -a composicion incluye un vocabularlo adecuado en su mayorla, el cual contribuye satisfactorlamente al tono y estio del escritor. | $\begin{aligned} & \text {-a composicion incluye un } \\ & \text { vocabulario especifico que } \\ & \text { contribuye consistentemente al tono } \\ & \text { y estilo del escritor. } \end{aligned}$ | -a composicion incluye un vocabulario preciso y seleccionado intencionalmente que contribuye al tono y estlo del escritor de manera sollda. |
| Los recursos ilterarios yio retoricos estan generalmente ausentes. | - os recursos itterarios y/o retoricos, sl se utllzan, no contribuyen a la calldad o efectividad de la composicion. | Los recursos literarios ylo retoricos, sl se utillizan, son un anto efectivos al contribulr a la calldad o efectividad de la composicion. | Los recursos ilteranios yio retoricos, sl se utllizan, son efectivos y contribuyen a la calldad p efectividad de la composicion. | -os recursos iterarios y/o retoricos, sil se utilizan, son efectivos, interesantes y contribuyen a la calldad o efectividad de la composicion. | Los recursos itterarios yio retoricos, 81 se utillzan, son efectivos, interesantes, originales y destacan la calldad o zfectividad de la composicion. |
| -a composicion incluye oraciones que son confusas ellogicas en su mayorla. | -a composicion Incluye oraciones que en ocaslones son confusas e llogicas. | a composicion incluye oraciones que son claras y logicas en su mayorla. | -a composición Incluye oraclones que son conslstentemente claras y ogicas. | La composicion Incluye oraciones que son consistentemente claras, ogicas y variadas en su estructura. | -a composicion Incluye oraciones que son consistentemente claras, logicas y variadas en su estructura. |
| Las oraclones son muy breves, \|rregulares, forzadas o incompletas, y no establecen una relacion entre las deas. | -as oraclones son simples en su mayorla, pueden inclur tragmentos Inadecuados o no establecer relaciones entre las Ideas. | -as oraclones y expreslones pueden ser en ocaslones forzadas p mal manejadas, lo que en pcasiones debilita la relaclon entre las ideas. | Las oraclones y expresiones estan manejadas adecuadamente y por 10 general establecen las relaclones entre las Ideas. | Las oraciones y expresiones estan manejadas habilmente y establecen con efectividad las relaclones entre as Ideas. | Las oraclones y expreslones son sofisticadas en su construccion y establecen fuertemente las relaciones entre las ideas. |

-a composicion Incluye una variedad de errores que refiejan poco o nulo dominio de las convenclones del lenguaje basicas (la ortografla, las nayusculas, la puntuacion, la gramatica y el empleo adecuado de las palabras)
-a composicion puede requerir correcciones extensas por errores en las convenclones del lenguale o puede ser demaslado breve como para valuar el dominio de estas convenciones.
a composicion demuestra poco o nu'o dominio en la separacion de las oraclones.

Si se incluye, la separacion de parrafos interfere con el significado o demuestra solo una comprension basica de su uso.

## ONVENCIONES

a composicion demuestra un dominlo suficiente de las convenciones del lenguaje basicas (la ortografla, las mayus culas, la puntuacion, a gramatica y el empleo adecuado de las palabras).
-a composicion puede requerir correcciones menores o moderadas por errores en las convenciones del lenguaje.
-a composicion demuestra un dominio razonabie en la separacion de las oradones.

Si se incluye, la separacion de parratos demuestra una comprension adecuada de su uso.
a composicion demuestra un dominio consistente de las convenciones del enguaje basicas (la ortograrla, las mayusculas, la puntuacion, la gramatica y el empleo adecuado de las palabras).

La composicion requiere correcciones menores, o ninguna, por errores en as convenciones del lenguaje.
a composicion puede incluir la manipulacion de las convenciones del enguaje de una manera intenclonada y efectiva.
a composicion demuestra un dominio consistente en la separacion de las oraciones, lo cual hace destacar la composicion.
is incluye, la separacion de parrafos esta blen manejada y se hace intenclonalmente.

## APPENDIX E: STUDENT DEMOGRAPHICS

Table E1 lists the demographic distributions for all students and by grade/course. Students who had at least one writing sample that was scored by three raters-Teacher, ESC, and TR1—had their data used in the analyses. Across all grades/courses, most key demographic groups are represented in this study, though not truly representative of the state student population due to the small sample size.

Table E1. Students' Demographics of Analysis Sample

| Demographics | Value | All |  | Grade 4 Writing |  | Grade 7 Writing |  | English I |  | English II |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | N | \% | N | \% | N | \% | N | \% | N | \% |
| Total | Total | 2755 | 100 | 603 | 100 | 922 | 100 | 723 | 100 | 507 | 100 |
| Region | 1 | 1337 | 49 | 300 | 50 | 658 | 71 | 335 | 46 | 44 | 9 |
|  | 10 | 414 | 15 | 256 | 42 | 158 | 17 | 0 | 0 | 0 | 0 |
|  | 16 | 1004 | 36 | 47 | 8 | 106 | 11 | 388 | 54 | 463 | 91 |
| Gender | Male | 1420 | 52 | 308 | 51 | 456 | 49 | 390 | 54 | 266 | 52 |
|  | Female | 1334 | 48 | 295 | 49 | 466 | 51 | 332 | 46 | 241 | 48 |
|  | No information provided | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Ethnicity | Hispanic/Latino | 1387 | 50 | 228 | 38 | 385 | 42 | 452 | 63 | 322 | 64 |
|  | American Indian or Alaska Native | 16 | 1 | 4 | 1 | 3 | 0 | 3 | 0 | 6 | 1 |
|  | Asian | 107 | 4 | 29 | 5 | 43 | 5 | 20 | 3 | 15 | 3 |
|  | Black or African American | 349 | 13 | 76 | 13 | 97 | 11 | 140 | 19 | 36 | 7 |
|  | Native Hawaiian or Other Pacific Islander | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
|  | White | 789 | 29 | 236 | 39 | 363 | 39 | 81 | 11 | 109 | 21 |
|  | Two or More Races | 80 | 3 | 29 | 5 | 27 | 3 | 13 | 2 | 11 | 2 |
|  | No Information Provided | 25 | 1 | 1 | 0 | 4 | 0 | 14 | 2 | 6 | 1 |
| Economically Disadvantaged | Yes | 1769 | 64 | 368 | 61 | 542 | 59 | 540 | 75 | 319 | 63 |
|  | No | 986 | 36 | 235 | 39 | 380 | 41 | 183 | 25 | 188 | 37 |


| Demographics | Value | All |  | Grade 4 Writing |  | Grade 7 Writing |  | English I |  | English II |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | N | \% | N | \% | N | \% | N | \% | N | \% |
| Title I, Part A | Participants | 1767 | 64 | 532 | 88 | 597 | 65 | 468 | 65 | 170 | 34 |
|  | Nonparticipants | 988 | 36 | 71 | 12 | 325 | 35 | 255 | 35 | 337 | 66 |
| Migrant | Yes | 22 | 1 | 1 | 0 | 2 | 0 | 8 | 1 | 11 | 2 |
|  | No | 2733 | 99 | 602 | 100 | 920 | 100 | 715 | 99 | 496 | 98 |
| Limited English Proficient | Current LEP | 368 | 13 | 96 | 16 | 135 | 15 | 86 | 12 | 51 | 10 |
|  | Non-LEP (Monitored 1st Year) | 66 | 2 | 18 | 3 | 17 | 2 | 24 | 3 | 7 | 1 |
|  | Non-LEP (Monitored 2nd Year) | 47 | 2 | 10 | 2 | 19 | 2 | 9 | 1 | 9 | 2 |
|  | Other Non-LEP student | 2246 | 82 | 478 | 79 | 747 | 81 | 588 | 81 | 433 | 85 |
|  | No Information Provided | 28 | 1 | 1 | 0 | 4 | 0 | 16 | 2 | 7 | 1 |
| Bilingual | Participants | 20 | 1 | 15 | 2 | 5 | 1 | 0 | 0 | 0 | 0 |
|  | Nonparticipants | 2735 | 99 | 588 | 98 | 917 | 99 | 723 | 100 | 507 | 100 |
| ESL | Participants | 343 | 12 | 81 | 13 | 125 | 14 | 86 | 12 | 51 | 10 |
|  | Nonparticipants | 2412 | 88 | 522 | 87 | 797 | 86 | 637 | 88 | 456 | 90 |
| Special Education | Yes | 225 | 8 | 44 | 7 | 68 | 7 | 75 | 10 | 38 | 7 |
|  | No | 2530 | 92 | 559 | 93 | 854 | 93 | 648 | 90 | 469 | 93 |
| Gifted/Talented | Participants | 207 | 8 | 74 | 12 | 80 | 9 | 24 | 3 | 29 | 6 |
|  | Nonparticipants | 2548 | 92 | 529 | 88 | 842 | 91 | 699 | 97 | 478 | 94 |
| At-Risk | Yes | 1572 | 57 | 273 | 45 | 453 | 49 | 535 | 74 | 311 | 61 |
|  | No | 1183 | 43 | 330 | 55 | 469 | 51 | 188 | 26 | 196 | 39 |

## APPENDIX F: MEAN RATER SCORES

The number of writing samples in each writing group ranged from 33 to 2248 . The raters used all valid rating categories, with ratings concentrated on the middle scores: 2 to 5 for organization, content, and language, and 4 for conventions. This indicates that raters were able to distinguish the quality of student writings according to the rubrics. One noteworthy observation is that in general the Teacher gave the highest average scores among the four raters except for organization and conventions scores in English I where the Teacher's average scores were lower than ESC rater's and the second highest. This pattern can be observed in Figures F1-F4 that compare the average rating scores in the four categories among the four raters based on the total writing samples in the four grades/courses, respectively.

Figure F1. Grade 4 Writing Mean Rating Scores on Total Samples


Figure F2. Grade 7 Writing Mean Rating Scores on Total Samples

Texas Education Agency


Figure F3. English I Mean Rating Scores on Total Samples


Figure F4. English II Mean Rating Scores on Total Samples

Texas Education Agency


Texas Education Agency

## APPENDIX G: RATER SCORE SUMMARY BY CATEGORY

Tables G1.1 to G1.4 show the summary statistics for scores by category: organization, content, language, and conventions, respectively, for each rater in grade 4 writing, including number of responses ( N ), rating score mean (Mean), standard deviation (StdDev), and the percentage of students at each score point (S1 S6). Note that Conventions only have three valid score points: 2,4 , and 6 . The summary statistics were calculated for each writing sample (TS1, PS1, PS2, and TS2), each writing genre, each timed writing prompt, and the total writing samples with a sample size of at least 30 . Tables G2.1 to G2.4 are the same tables for grade 7 writing, G3.1 to G3.4 are for English I, and G4.1 to G4.4 are for English II

Table G1.1 Rater Scores Summary: Grade 4, Organization

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 603 | 2.89 | 1.11 | 11 | 26 | 33 | 22 | 6 | 1 |
|  |  | ESC | 603 | 2.94 | 1.15 | 11 | 25 | 34 | 20 | 9 | 1 |
|  |  | TR1 | 603 | 2.70 | 1.12 | 14 | 31 | 32 | 17 | 5 | 1 |
|  |  | TR2 | 124 | 2.85 | 1.04 | 8 | 30 | 38 | 18 | 6 | 1 |
|  | PS1 | Teacher | 361 | 3.39 | 1.00 | 1 | 17 | 40 | 29 | 11 | 2 |
|  |  | ESC | 361 | 3.14 | 1.17 | 7 | 24 | 34 | 24 | 8 | 3 |
|  |  | TR1 | 361 | 2.82 | . 99 | 9 | 29 | 38 | 20 | 4 | 0 |
|  |  | TR2 | 62 | 2.82 | . 91 | 5 | 32 | 44 | 15 | 5 | 0 |
|  | PS2 | Teacher | 602 | 3.66 | 1.12 | 3 | 10 | 30 | 35 | 16 | 5 |
|  |  | ESC | 602 | 3.42 | 1.15 | 4 | 16 | 34 | 27 | 15 | 3 |
|  |  | TR1 | 602 | 3.18 | 1.00 | 5 | 19 | 39 | 30 | 6 | 1 |
|  |  | TR2 | 200 | 3.36 | 1.01 | 3 | 15 | 38 | 34 | 8 | 3 |
|  | TS2 | Teacher | 603 | 3.76 | 1.20 | 3 | 12 | 27 | 30 | 22 | 7 |
|  |  | ESC | 603 | 3.18 | 1.17 | 7 | 23 | 31 | 27 | 10 | 2 |
|  |  | TR1 | 603 | 3.10 | 1.09 | 8 | 19 | 39 | 25 | 7 | 2 |
|  |  | TR2 | 131 | 3.05 | 1.19 | 11 | 18 | 44 | 16 | 9 | 3 |
| Genre | Analytic | Teacher | 93 | 2.91 | 1.08 | 12 | 23 | 32 | 29 | 4 | 0 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ESC | 93 | 3.72 | 1.30 | 5 | 11 | 30 | 20 | 27 | 6 |
|  |  | TR1 | 93 | 3.40 | 1.10 | 6 | 10 | 38 | 33 | 10 | 3 |
|  |  | TR2 | 60 | 3.50 | . 93 | 0 | 12 | 42 | 35 | 8 | 3 |
|  | Expository | Teacher | 526 | 3.60 | 1.07 | 1 | 12 | 36 | 33 | 13 | 5 |
|  |  | ESC | 526 | 3.26 | 1.17 | 6 | 21 | 33 | 27 | 10 | 3 |
|  |  | TR1 | 526 | 2.98 | 1.00 | 6 | 25 | 38 | 25 | 5 | 0 |
|  |  | TR2 | 83 | 3.11 | 1.00 | 4 | 22 | 45 | 23 | 5 | 2 |
|  | Other | Teacher | 1 |  |  |  |  |  |  |  |  |
|  |  | ESC | 1 |  |  |  |  |  |  |  |  |
|  |  | TR1 | 1 |  |  |  |  |  |  |  |  |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  | Personal Narrative | Teacher | 79 | 3.42 | 1.23 | 5 | 20 | 27 | 27 | 19 | 3 |
|  |  | ESC | 79 | 3.24 | 1.24 | 9 | 18 | 33 | 25 | 11 | 4 |
|  |  | TR1 | 79 | 2.76 | 1.13 | 15 | 27 | 32 | 20 | 6 | 0 |
|  |  | TR2 | 59 | 3.08 | 1.13 | 8 | 24 | 27 | 34 | 5 | 2 |
|  | Persuasive | Teacher | 264 | 3.73 | . 98 | 1 | 7 | 34 | 36 | 19 | 3 |
|  |  | ESC | 264 | 3.32 | 1.04 | 3 | 18 | 38 | 27 | 13 | 1 |
|  |  | TR1 | 264 | 3.13 | . 93 | 3 | 21 | 41 | 29 | 5 | 0 |
|  |  | TR2 | 60 | 3.27 | . 94 | 2 | 18 | 42 | 28 | 10 | 0 |
|  | Personal Narrative_TS | Teacher | 1206 | 3.32 | 1.23 | 7 | 19 | 30 | 26 | 14 | 4 |
|  |  | ESC | 1206 | 3.06 | 1.17 | 9 | 24 | 33 | 23 | 9 | 2 |
|  |  | TR1 | 1206 | 2.90 | 1.12 | 11 | 25 | 35 | 21 | 6 | 1 |
|  |  | TR2 | 255 | 2.95 | 1.12 | 9 | 24 | 41 | 17 | 7 | 2 |
| Timed Sample Prompt | 1000022 | Teacher | 523 | 3.21 | 1.19 | 7 | 22 | 31 | 26 | 12 | 2 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ESC | 523 | 3.08 | 1.17 | 8 | 24 | 35 | 19 | 11 | 2 |
|  |  | TR1 | 523 | 2.86 | 1.09 | 11 | 26 | 37 | 19 | 6 | 1 |
|  |  | TR2 | 116 | 2.82 | 1.03 | 9 | 28 | 42 | 16 | 3 | 2 |
|  |  | Teacher | 293 | 3.37 | 1.28 | 7 | 20 | 27 | 25 | 16 | 4 |
|  |  | ESC | 293 | 3.05 | 1.16 | 11 | 21 | 32 | 27 | 8 | 1 |
|  |  | TR1 | 293 | 2.89 | 1.16 | 13 | 22 | 37 | 20 | 6 | 2 |
|  |  | TR2 | 52 | 3.02 | 1.15 | 12 | 17 | 40 | 19 | 12 | 0 |
|  |  | Teacher | 390 | 3.43 | 1.25 | 7 | 15 | 32 | 27 | 15 | 5 |
|  |  | ESC | 390 | 3.05 | 1.17 | 9 | 26 | 29 | 26 | 8 | 2 |
|  |  | TR1 | 390 | 2.96 | 1.14 | 10 | 26 | 33 | 24 | 6 | 2 |
|  |  | TR2 | 87 | 3.09 | 1.22 | 9 | 21 | 39 | 17 | 10 | 3 |
| Total | Total | Teacher | 2169 | 3.43 | 1.17 | 5 | 16 | 32 | 29 | 14 | 4 |
|  |  | ESC | 2169 | 3.18 | 1.17 | 7 | 22 | 33 | 25 | 11 | 2 |
|  |  | TR1 | 2169 | 2.96 | 1.08 | 9 | 24 | 37 | 23 | 6 | 1 |
|  |  | TR2 | 517 | 3.09 | 1.07 | 6 | 21 | 40 | 23 | 7 | 2 |

TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples

Table G1.2 Rater Scores Summary: Grade 4, Content

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 603 | 2.82 | 1.10 | 10 | 31 | 33 | 17 | 7 | 0 |
|  |  | ESC | 603 | 2.80 | 1.17 | 13 | 30 | 30 | 18 | 8 | 1 |
|  |  | TR1 | 603 | 2.67 | 1.11 | 14 | 33 | 31 | 16 | 5 | 1 |
|  |  | TR2 | 124 | 2.73 | 1.00 | 9 | 33 | 40 | 14 | 4 | 1 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Teacher | 361 | 3.35 | 1.03 | 2 | 19 | 39 | 28 | 11 | 2 |
|  |  | ESC | 361 | 2.96 | 1.24 | 11 | 27 | 30 | 21 | 7 | 4 |
|  |  | TR1 | 361 | 2.66 | . 98 | 9 | 38 | 34 | 16 | 3 | 0 |
|  |  | TR2 | 62 | 2.71 | . 89 | 3 | 45 | 32 | 16 | 3 | 0 |
|  |  | Teacher | 602 | 3.65 | 1.11 | 3 | 11 | 31 | 32 | 19 | 4 |
|  |  | ESC | 602 | 3.25 | 1.21 | 7 | 20 | 32 | 25 | 12 | 3 |
|  |  | TR1 | 602 | 3.05 | . 99 | 5 | 22 | 43 | 23 | 6 | 1 |
|  |  | TR2 | 200 | 3.26 | 1.04 | 5 | 16 | 40 | 31 | 8 | 2 |
|  |  | Teacher | 603 | 3.73 | 1.23 | 4 | 13 | 26 | 30 | 21 | 7 |
|  |  | ESC | 603 | 3.02 | 1.18 | 8 | 28 | 29 | 24 | 8 | 2 |
|  |  | TR1 | 603 | 3.12 | 1.10 | 7 | 21 | 37 | 25 | 8 | 2 |
|  |  | TR2 | 131 | 3.03 | 1.09 | 8 | 20 | 47 | 16 | 8 | 2 |
| Genre | Analytic | Teacher | 93 | 2.97 | 1.07 | 9 | 26 | 32 | 27 | 6 | 0 |
|  |  | ESC | 93 | 3.61 | 1.33 | 6 | 14 | 27 | 24 | 23 | 6 |
|  |  | TR1 | 93 | 3.26 | 1.19 | 8 | 16 | 35 | 30 | 5 | 5 |
|  |  | TR2 | 60 | 3.48 | . 98 | 0 | 15 | 38 | 33 | 10 | 3 |
|  | Expository | Teacher | 526 | 3.59 | 1.08 | 2 | 13 | 35 | 32 | 15 | 5 |
|  |  | ESC | 526 | 3.10 | 1.24 | 10 | 23 | 30 | 25 | 8 | 4 |
|  |  | TR1 | 526 | 2.82 | . 99 | 7 | 32 | 38 | 18 | 5 | 0 |
|  |  | TR2 | 83 | 3.02 | 1.00 | 2 | 31 | 35 | 27 | 2 | 2 |
|  | Other | Teacher | 1 |  |  |  |  |  |  |  |  |
|  |  | ESC | 1 |  |  |  |  |  |  |  |  |
|  |  | TR1 | 1 |  |  |  |  |  |  |  |  |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Teacher | 79 | 3.51 | 1.34 | 6 | 19 | 25 | 22 | 23 | 5 |
|  |  | ESC | 79 | 3.08 | 1.32 | 13 | 22 | 29 | 24 | 8 | 5 |
|  |  | TR1 | 79 | 2.68 | 1.10 | 14 | 33 | 30 | 16 | 6 | 0 |
|  |  | TR2 | 59 | 2.92 | 1.12 | 15 | 15 | 37 | 27 | 5 | 0 |
|  |  | Teacher | 264 | 3.64 | 1.00 | 1 | 10 | 36 | 32 | 19 | 2 |
|  |  | ESC | 264 | 3.09 | 1.12 | 6 | 26 | 35 | 22 | 10 | 2 |
|  |  | TR1 | 264 | 3.02 | . 90 | 4 | 22 | 47 | 22 | 5 | 0 |
|  |  | TR2 | 60 | 3.13 | . 96 | 2 | 25 | 42 | 22 | 10 | 0 |
|  |  | Teacher | 1206 | 3.27 | 1.25 | 7 | 22 | 29 | 24 | 14 | 4 |
|  | Personal | ESC | 1206 | 2.91 | 1.18 | 11 | 29 | 30 | 21 | 8 | 2 |
|  | Narrative_TS | TR1 | 1206 | 2.90 | 1.13 | 11 | 27 | 34 | 21 | 7 | 1 |
|  |  | TR2 | 255 | 2.89 | 1.05 | 8 | 26 | 43 | 15 | 6 | 2 |
| Timed Sample Prompt | 1000022 | Teacher | 523 | 3.15 | 1.21 | 7 | 27 | 29 | 22 | 13 | 2 |
|  |  | ESC | 523 | 2.96 | 1.16 | 9 | 30 | 30 | 20 | 9 | 2 |
|  |  | TR1 | 523 | 2.87 | 1.09 | 9 | 29 | 35 | 20 | 6 | 1 |
|  |  | TR2 | 116 | 2.79 | . 98 | 8 | 28 | 47 | 11 | 3 | 2 |
|  | 1000023 | Teacher | 293 | 3.34 | 1.31 | 8 | 19 | 29 | 21 | 18 | 4 |
|  |  | ESC | 293 | 2.85 | 1.17 | 15 | 23 | 34 | 20 | 8 | 1 |
|  |  | TR1 | 293 | 2.89 | 1.15 | 12 | 26 | 34 | 20 | 7 | 1 |
|  |  | TR2 | 52 | 2.94 | 1.00 | 8 | 23 | 42 | 21 | 6 | 0 |
|  | 1000024 | Teacher | 390 | 3.38 | 1.25 | 7 | 18 | 29 | 27 | 13 | 5 |
|  |  | ESC | 390 | 2.89 | 1.21 | 11 | 33 | 25 | 22 | 7 | 2 |
|  |  | TR1 | 390 | 2.94 | 1.17 | 11 | 25 | 33 | 22 | 7 | 2 |
|  |  | TR2 | 87 | 2.98 | 1.17 | 9 | 25 | 38 | 16 | 9 | 2 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | Total | Teacher | 2169 | 3.39 | 1.19 | 5 | 18 | 31 | 27 | 15 | 4 |
|  |  | ESC | 2169 | 3.01 | 1.21 | 10 | 26 | 30 | 22 | 9 | 2 |
|  |  | TR1 | 2169 | 2.90 | 1.08 | 9 | 27 | 36 | 20 | 6 | 1 |
|  |  | TR2 | 517 | 3.01 | 1.05 | 6 | 24 | 40 | 21 | 6 | 2 |

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G1.3. Rater Scores Summary: Grade 4, Language

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 603 | 2.86 | 1.13 | 12 | 27 | 34 | 20 | 7 | 1 |
|  |  | ESC | 603 | 2.73 | 1.14 | 13 | 33 | 28 | 19 | 6 | 1 |
|  |  | TR1 | 603 | 2.54 | 1.10 | 17 | 36 | 29 | 12 | 5 | 1 |
|  |  | TR2 | 124 | 2.57 | . 96 | 10 | 40 | 36 | 10 | 2 | 1 |
|  | PS1 | Teacher | 361 | 3.50 | . 93 | 1 | 14 | 33 | 40 | 10 | 2 |
|  |  | ESC | 361 | 2.85 | 1.21 | 12 | 30 | 30 | 19 | 7 | 2 |
|  |  | TR1 | 361 | 2.67 | 1.00 | 10 | 37 | 32 | 16 | 4 | 0 |
|  |  | TR2 | 62 | 2.73 | . 93 | 5 | 40 | 37 | 13 | 5 | 0 |
|  | PS2 | Teacher | 602 | 3.59 | 1.11 | 3 | 13 | 28 | 36 | 17 | 3 |
|  |  | ESC | 602 | 3.20 | 1.18 | 7 | 22 | 32 | 26 | 11 | 2 |
|  |  | TR1 | 602 | 2.89 | . 94 | 5 | 29 | 43 | 18 | 4 | 0 |
|  |  | TR2 | 200 | 3.10 | 1.01 | 6 | 20 | 44 | 24 | 6 | 2 |
|  | TS2 | Teacher | 603 | 3.75 | 1.23 | 4 | 11 | 27 | 28 | 24 | 6 |
|  |  | ESC | 603 | 3.02 | 1.14 | 6 | 31 | 31 | 21 | 9 | 2 |
|  |  | TR1 | 603 | 3.01 | 1.11 | 9 | 20 | 41 | 20 | 7 | 2 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | TR2 | 131 | 2.98 | 1.14 | 10 | 18 | 49 | 12 | 8 | 3 |
| Genre | Analytic | Teacher | 93 | 3.00 | 1.11 | 8 | 28 | 31 | 25 | 8 | 1 |
|  |  | ESC | 93 | 3.49 | 1.29 | 8 | 13 | 31 | 25 | 18 | 5 |
|  |  | TR1 | 93 | 3.06 | 1.12 | 6 | 25 | 38 | 20 | 9 | 2 |
|  |  | TR2 | 60 | 3.23 | . 98 | 0 | 23 | 42 | 27 | 5 | 3 |
|  | Expository | Teacher | 526 | 3.65 | . 95 | 0 | 11 | 29 | 43 | 13 | 3 |
|  |  | ESC | 526 | 2.97 | 1.20 | 11 | 27 | 30 | 22 | 8 | 2 |
|  |  | TR1 | 526 | 2.79 | . 97 | 7 | 33 | 37 | 18 | 5 | 0 |
|  |  | TR2 | 83 | 2.99 | 1.01 | 5 | 28 | 39 | 23 | 5 | 1 |
|  | Other | Teacher | 1 |  |  |  |  |  |  |  |  |
|  |  | ESC | 1 |  |  |  |  |  |  |  |  |
|  |  | TR1 | 1 |  |  |  |  |  |  |  |  |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  | Personal Narrative | Teacher | 79 | 3.09 | 1.33 | 13 | 24 | 23 | 27 | 10 | 4 |
|  |  | ESC | 79 | 3.13 | 1.32 | 11 | 22 | 30 | 22 | 10 | 5 |
|  |  | TR1 | 79 | 2.62 | . 99 | 11 | 35 | 38 | 10 | 5 | 0 |
|  |  | TR2 | 59 | 2.85 | 1.11 | 15 | 17 | 42 | 19 | 7 | 0 |
|  | Persuasive | Teacher | 264 | 3.69 | 1.03 | 1 | 11 | 32 | 33 | 20 | 3 |
|  |  | ESC | 264 | 3.11 | 1.10 | 6 | 25 | 34 | 24 | 11 | 1 |
|  |  | TR1 | 264 | 2.80 | . 87 | 5 | 33 | 42 | 18 | 2 | 0 |
|  |  | TR2 | 60 | 2.98 | . 89 | 2 | 28 | 47 | 17 | 7 | 0 |
|  | Personal <br> Narrative_TS | Teacher | 1206 | 3.30 | 1.26 | 8 | 19 | 30 | 24 | 15 | 4 |
|  |  | ESC | 1206 | 2.87 | 1.15 | 10 | 32 | 30 | 20 | 7 | 1 |
|  |  | TR1 | 1206 | 2.78 | 1.13 | 13 | 28 | 35 | 16 | 6 | 1 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | TR2 | 255 | 2.78 | 1.07 | 10 | 29 | 43 | 11 | 5 | 2 |
| Timed Sample Prompt | 1000022 | Teacher | 523 | 3.18 | 1.19 | 8 | 20 | 34 | 23 | 13 | 2 |
|  |  | ESC | 523 | 2.89 | 1.13 | 9 | 31 | 31 | 20 | 7 | 1 |
|  |  | TR1 | 523 | 2.75 | 1.07 | 11 | 31 | 36 | 15 | 6 | 1 |
|  |  | TR2 | 116 | 2.62 | . 95 | 10 | 34 | 44 | 9 | 1 | 2 |
|  | 1000023 | Teacher | 293 | 3.31 | 1.33 | 10 | 18 | 31 | 19 | 18 | 4 |
|  |  | ESC | 293 | 2.81 | 1.13 | 13 | 29 | 31 | 20 | 7 | 0 |
|  |  | TR1 | 293 | 2.76 | 1.17 | 15 | 27 | 35 | 15 | 6 | 2 |
|  |  | TR2 | 52 | 2.90 | 1.01 | 8 | 25 | 44 | 15 | 8 | 0 |
|  | 1000024 | Teacher | 390 | 3.46 | 1.28 | 6 | 19 | 25 | 28 | 16 | 5 |
|  |  | ESC | 390 | 2.91 | 1.17 | 8 | 36 | 27 | 19 | 8 | 2 |
|  |  | TR1 | 390 | 2.82 | 1.17 | 14 | 26 | 34 | 19 | 6 | 2 |
|  |  | TR2 | 87 | 2.93 | 1.23 | 11 | 24 | 40 | 11 | 9 | 3 |
| Total | Total | Teacher | 2169 | 3.41 | 1.18 | 5 | 17 | 30 | 30 | 15 | 3 |
|  |  | ESC | 2169 | 2.96 | 1.18 | 9 | 29 | 30 | 21 | 8 | 2 |
|  |  | TR1 | 2169 | 2.79 | 1.06 | 10 | 30 | 37 | 17 | 5 | 1 |
|  |  | TR2 | 517 | 2.90 | 1.04 | 8 | 26 | 42 | 16 | 5 | 2 |

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G1.4. Rater Scores Summary: Grade 4, Conventions

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 603 | 3.27 | 1.18 |  | 42 |  | 52 |  | 6 |
|  |  | ESC | 603 | 3.28 | 1.29 |  | 45 |  | 46 |  | 9 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | TR1 | 603 | 3.09 | 1.29 |  | 54 |  | 38 |  | 8 |
|  |  | TR2 | 124 | 3.24 | 1.21 |  | 44 |  | 49 |  | 6 |
|  |  | Teacher | 361 | 3.90 | 1.04 |  | 16 |  | 73 |  | 11 |
|  |  | ESC | 361 | 3.51 | 1.37 |  | 39 |  | 47 |  | 14 |
|  |  | TR1 | 361 | 3.33 | 1.25 |  | 42 |  | 50 |  | 8 |
|  |  | TR2 | 62 | 3.39 | 1.12 |  | 35 |  | 60 |  | 5 |
|  |  | Teacher | 602 | 3.97 | 1.22 |  | 19 |  | 63 |  | 18 |
|  |  | ESC | 602 | 3.70 | 1.25 |  | 28 |  | 58 |  | 13 |
|  |  | TR1 | 602 | 3.78 | 1.20 |  | 24 |  | 63 |  | 13 |
|  |  | TR2 | 200 | 4.00 | 1.20 |  | 18 |  | 64 |  | 18 |
|  |  | Teacher | 603 | 3.91 | 1.27 |  | 22 |  | 60 |  | 18 |
|  |  | ESC | 603 | 3.50 | 1.26 |  | 35 |  | 54 |  | 10 |
|  |  | TR1 | 603 | 3.67 | 1.33 |  | 32 |  | 53 |  | 15 |
|  |  | TR2 | 131 | 3.65 | 1.23 |  | 29 |  | 60 |  | 11 |
| Genre | Analytic | Teacher | 93 | 3.18 | 1.07 |  | 43 |  | 55 |  | 2 |
|  |  | ESC | 93 | 3.91 | 1.35 |  | 25 |  | 55 |  | 20 |
|  |  | TR1 | 93 | 3.81 | 1.25 |  | 25 |  | 60 |  | 15 |
|  |  | TR2 | 60 | 3.97 | 1.19 |  | 18 |  | 65 |  | 17 |
|  | Expository | Teacher | 526 | 4.00 | 1.08 |  | 15 |  | 71 |  | 14 |
|  |  | ESC | 526 | 3.62 | 1.36 |  | 34 |  | 50 |  | 15 |
|  |  | TR1 | 526 | 3.55 | 1.27 |  | 34 |  | 55 |  | 11 |
|  |  | TR2 | 83 | 3.76 | 1.19 |  | 24 |  | 64 |  | 12 |
|  | Other | Teacher | 1 |  |  |  |  |  |  |  |  |
|  |  | ESC | 1 |  |  |  |  |  |  |  |  |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | TR1 | 1 |  |  |  |  |  |  |  |  |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  |  | Teacher | 79 | 3.70 | 1.51 |  | 37 |  | 42 |  | 22 |
|  |  | ESC | 79 | 3.52 | 1.25 |  | 34 |  | 56 |  | 10 |
|  |  | TR1 | 79 | 3.49 | 1.22 |  | 34 |  | 57 |  | 9 |
|  |  | TR2 | 59 | 3.90 | 1.31 |  | 24 |  | 58 |  | 19 |
|  |  | Teacher | 264 | 4.18 | 1.09 |  | 11 |  | 70 |  | 20 |
|  |  | ESC | 264 | 3.60 | 1.17 |  | 29 |  | 62 |  | 9 |
|  |  | TR1 | 264 | 3.70 | 1.17 |  | 25 |  | 64 |  | 11 |
|  |  | TR2 | 60 | 3.83 | 1.18 |  | 22 |  | 65 |  | 13 |
|  |  | Teacher | 1206 | 3.59 | 1.27 |  | 32 |  | 56 |  | 12 |
|  | Personal | ESC | 1206 | 3.39 | 1.27 |  | 40 |  | 50 |  | 10 |
|  | Narrative_TS | TR1 | 1206 | 3.38 | 1.34 |  | 43 |  | 45 |  | 12 |
|  |  | TR2 | 255 | 3.45 | 1.23 |  | 36 |  | 55 |  | 9 |
| Timed Sample Prompt | 1000022 | Teacher | 523 | 3.53 | 1.19 |  | 32 |  | 59 |  | 9 |
|  |  | ESC | 523 | 3.38 | 1.28 |  | 41 |  | 50 |  | 10 |
|  |  | TR1 | 523 | 3.37 | 1.36 |  | 44 |  | 44 |  | 12 |
|  |  | TR2 | 116 | 3.34 | 1.17 |  | 39 |  | 55 |  | 6 |
|  | 1000023 | Teacher | 293 | 3.57 | 1.37 |  | 37 |  | 48 |  | 15 |
|  |  | ESC | 293 | 3.33 | 1.23 |  | 41 |  | 51 |  | 8 |
|  |  | TR1 | 293 | 3.34 | 1.27 |  | 42 |  | 49 |  | 9 |
|  |  | TR2 | 52 | 3.50 | 1.24 |  | 35 |  | 56 |  | 10 |
|  | 1000024 | Teacher | 390 | 3.68 | 1.28 |  | 30 |  | 56 |  | 14 |
|  |  | ESC | 390 | 3.45 | 1.30 |  | 39 |  | 50 |  | 11 |


| Group | Sample ${ }^{\text {a }}$ | Rater | $N$ | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | TR1 | 390 | 3.43 | 1.38 |  | 42 |  | 44 |  | 14 |
|  |  | TR2 | 87 | 3.56 | 1.31 |  | 34 |  | 53 |  | 13 |
| Total | Total | Teacher | 2169 | 3.75 | 1.23 |  | 26 |  | 61 |  | 13 |
|  |  | ESC | 2169 | 3.50 | 1.29 |  | 37 |  | 52 |  | 11 |
|  |  | TR1 | 2169 | 3.48 | 1.30 |  | 38 |  | 51 |  | 12 |
|  |  | TR2 | 517 | 3.66 | 1.24 |  | 29 |  | 59 |  | 12 |

TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G2.1 Rater Scores Summary: Grade 7, Organization

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 890 | 3.36 | 1.21 | 7 | 18 | 30 | 30 | 13 | 4 |
|  |  | ESC | 890 | 3.20 | 1.25 | 8 | 22 | 30 | 24 | 11 | 4 |
|  |  | TR1 | 890 | 3.12 | 1.17 | 9 | 21 | 34 | 25 | 9 | 2 |
|  |  | TR2 | 185 | 3.04 | 1.09 | 9 | 20 | 37 | 27 | 6 | 1 |
|  | PS1 | Teacher | 383 | 3.73 | 1.18 | 4 | 10 | 27 | 31 | 22 | 5 |
|  |  | ESC | 383 | 3.66 | 1.40 | 7 | 14 | 25 | 25 | 17 | 11 |
|  |  | TR1 | 383 | 3.43 | 1.17 | 5 | 17 | 31 | 30 | 14 | 4 |
|  |  | TR2 | 139 | 3.24 | 1.43 | 12 | 21 | 27 | 21 | 11 | 9 |
|  | PS2 | Teacher | 237 | 3.66 | 1.33 | 8 | 12 | 22 | 30 | 22 | 7 |
|  |  | ESC | 237 | 3.57 | 1.30 | 5 | 16 | 27 | 28 | 16 | 8 |
|  |  | TR1 | 237 | 3.40 | 1.22 | 7 | 15 | 30 | 34 | 8 | 6 |
|  |  | TR2 | 99 | 3.54 | 1.25 | 4 | 15 | 32 | 29 | 10 | 9 |
|  | TS2 | Teacher | 362 | 3.71 | 1.09 | 2 | 10 | 30 | 38 | 14 | 7 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ESC | 362 | 3.16 | 1.22 | 9 | 18 | 36 | 22 | 10 | 3 |
|  |  | TR1 | 362 | 3.15 | 1.09 | 7 | 18 | 39 | 26 | 9 | 1 |
|  |  | TR2 | 83 | 3.17 | 1.09 | 6 | 20 | 37 | 23 | 13 | 0 |
| Genre | Analytic | Teacher | 126 | 4.42 | 1.13 | 1 | 6 | 11 | 35 | 29 | 19 |
|  |  | ESC | 126 | 4.11 | 1.35 | 2 | 11 | 19 | 26 | 23 | 18 |
|  |  | TR1 | 126 | 3.94 | 1.26 | 4 | 9 | 21 | 31 | 25 | 10 |
|  |  | TR2 | 59 | 4.17 | 1.43 | 5 | 10 | 12 | 29 | 24 | 20 |
|  | Expository | Teacher | 60 | 3.10 | 1.23 | 13 | 15 | 35 | 22 | 15 | 0 |
|  |  | ESC | 60 | 2.88 | 1.22 | 12 | 32 | 25 | 22 | 8 | 2 |
|  |  | TR1 | 60 | 2.78 | . 90 | 12 | 18 | 50 | 20 | 0 | 0 |
|  |  | TR2 | 60 | 2.52 | 1.03 | 18 | 30 | 37 | 12 | 3 | 0 |
|  | Other | Teacher | 1 |  |  |  |  |  |  |  |  |
|  |  | ESC | 1 |  |  |  |  |  |  |  |  |
|  |  | TR1 | 1 |  |  |  |  |  |  |  |  |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  | Personal Narrative | Teacher | 316 | 3.62 | 1.16 | 5 | 11 | 28 | 32 | 21 | 3 |
|  |  | ESC | 316 | 3.54 | 1.36 | 8 | 15 | 28 | 24 | 16 | 9 |
|  |  | TR1 | 316 | 3.36 | 1.15 | 5 | 19 | 29 | 33 | 10 | 4 |
|  |  | TR2 | 60 | 3.35 | 1.33 | 7 | 22 | 27 | 28 | 8 | 8 |
|  | Persuasive | Teacher | 117 | 3.47 | 1.21 | 7 | 15 | 27 | 29 | 21 | 2 |
|  |  | ESC | 117 | 3.74 | 1.23 | 3 | 12 | 26 | 34 | 15 | 9 |
|  |  | TR1 | 117 | 3.34 | 1.14 | 6 | 15 | 33 | 32 | 9 | 3 |
|  |  | TR2 | 59 | 3.44 | 1.12 | 3 | 12 | 42 | 29 | 7 | 7 |
|  | Expository_TS | Teacher | 1252 | 3.46 | 1.19 | 5 | 15 | 30 | 32 | 13 | 5 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ESC | 1252 | 3.19 | 1.24 | 9 | 21 | 32 | 24 | 11 | 4 |
|  |  | TR1 | 1252 | 3.13 | 1.14 | 8 | 20 | 35 | 25 | 9 | 2 |
|  |  | TR2 | 268 | 3.08 | 1.09 | 8 | 20 | 37 | 26 | 8 | 1 |
| Timed Sample Prompt | 1000029 | Teacher | 619 | 3.40 | 1.14 | 5 | 16 | 32 | 32 | 12 | 3 |
|  |  | ESC | 619 | 3.19 | 1.23 | 9 | 19 | 33 | 24 | 11 | 3 |
|  |  | TR1 | 619 | 3.17 | 1.12 | 7 | 19 | 36 | 26 | 10 | 2 |
|  |  | TR2 | 118 | 3.22 | 1.07 | 7 | 16 | 36 | 31 | 9 | 1 |
|  | 1000030 | Teacher | 180 | 3.40 | 1.13 | 5 | 16 | 32 | 32 | 13 | 3 |
|  |  | ESC | 180 | 3.14 | 1.27 | 9 | 22 | 33 | 19 | 12 | 4 |
|  |  | TR1 | 180 | 3.10 | 1.13 | 7 | 23 | 33 | 27 | 6 | 3 |
|  |  | TR2 | 33 | 2.94 | 1.09 | 12 | 21 | 30 | 33 | 3 | 0 |
|  | 1000031 | Teacher | 453 | 3.58 | 1.26 | 6 | 15 | 26 | 33 | 14 | 7 |
|  |  | ESC | 453 | 3.21 | 1.25 | 8 | 23 | 30 | 25 | 10 | 4 |
|  |  | TR1 | 453 | 3.09 | 1.17 | 10 | 20 | 35 | 24 | 9 | 2 |
|  |  | TR2 | 117 | 2.97 | 1.09 | 9 | 24 | 39 | 19 | 9 | 1 |
| Total | Total | Teacher | 1872 | 3.54 | 1.21 | 5 | 14 | 28 | 32 | 16 | 5 |
|  |  | ESC | 1872 | 3.33 | 1.30 | 8 | 19 | 30 | 24 | 13 | 6 |
|  |  | TR1 | 1872 | 3.23 | 1.17 | 7 | 19 | 34 | 27 | 10 | 3 |
|  |  | TR2 | 506 | 3.21 | 1.23 | 8 | 19 | 33 | 25 | 9 | 5 |

TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G2.2 Rater Scores Summary: Grade 7, Content

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 890 | 3.26 | 1.21 | 6 | 22 | 31 | 24 | 13 | 3 |
|  |  | ESC | 890 | 3.04 | 1.26 | 11 | 24 | 34 | 18 | 9 | 4 |
|  |  | TR1 | 890 | 3.04 | 1.19 | 10 | 23 | 33 | 23 | 9 | 2 |
|  |  | TR2 | 185 | 3.02 | 1.09 | 9 | 21 | 36 | 26 | 6 | 1 |
|  | PS1 | Teacher | 383 | 3.59 | 1.17 | 4 | 11 | 35 | 24 | 22 | 4 |
|  |  | ESC | 383 | 3.59 | 1.39 | 7 | 15 | 28 | 22 | 18 | 10 |
|  |  | TR1 | 383 | 3.27 | 1.20 | 6 | 21 | 32 | 25 | 13 | 3 |
|  |  | TR2 | 139 | 3.08 | 1.38 | 12 | 25 | 28 | 17 | 12 | 6 |
|  | PS2 | Teacher | 237 | 3.60 | 1.30 | 6 | 13 | 31 | 23 | 20 | 7 |
|  |  | ESC | 237 | 3.42 | 1.36 | 7 | 21 | 27 | 24 | 14 | 8 |
|  |  | TR1 | 237 | 3.39 | 1.27 | 7 | 18 | 27 | 32 | 11 | 6 |
|  |  | TR2 | 99 | 3.49 | 1.33 | 4 | 20 | 30 | 23 | 12 | 10 |
|  | TS2 | Teacher | 362 | 3.57 | 1.14 | 3 | 14 | 33 | 30 | 17 | 5 |
|  |  | ESC | 362 | 2.96 | 1.21 | 11 | 25 | 35 | 19 | 7 | 3 |
|  |  | TR1 | 362 | 3.19 | 1.10 | 7 | 17 | 39 | 25 | 10 | 2 |
|  |  | TR2 | 83 | 3.12 | 1.12 | 7 | 20 | 39 | 22 | 11 | 1 |
| Genre | Analytic | Teacher | 126 | 4.17 | 1.12 | 1 | 3 | 29 | 23 | 32 | 12 |
|  |  | ESC | 126 | 3.99 | 1.35 | 2 | 13 | 24 | 21 | 25 | 15 |
|  |  | TR1 | 126 | 3.83 | 1.26 | 5 | 9 | 26 | 28 | 25 | 8 |
|  |  | TR2 | 59 | 4.05 | 1.33 | 2 | 12 | 22 | 25 | 22 | 17 |
|  | Expository | Teacher | 60 | 3.08 | 1.21 | 15 | 10 | 40 | 22 | 13 | 0 |
|  |  | ESC | 60 | 2.75 | 1.13 | 15 | 25 | 38 | 13 | 8 | 0 |
|  |  | TR1 | 60 | 2.57 | . 96 | 15 | 32 | 35 | 18 | 0 | 0 |
|  |  | TR2 | 60 | 2.32 | . 98 | 22 | 38 | 28 | 10 | 2 | 0 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Other | Teacher | 1 |  |  |  |  |  |  |  |  |
|  |  | ESC | 1 |  |  |  |  |  |  |  |  |
|  |  | TR1 | 1 |  |  |  |  |  |  |  |  |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  | Personal Narrative | Teacher | 316 | 3.49 | 1.17 | 5 | 13 | 35 | 26 | 18 | 3 |
|  |  | ESC | 316 | 3.50 | 1.37 | 8 | 17 | 27 | 25 | 16 | 9 |
|  |  | TR1 | 316 | 3.24 | 1.18 | 6 | 22 | 32 | 28 | 9 | 4 |
|  |  | TR2 | 60 | 3.27 | 1.31 | 8 | 22 | 28 | 23 | 13 | 5 |
|  | Persuasive | Teacher | 117 | 3.49 | 1.24 | 4 | 18 | 32 | 21 | 22 | 3 |
|  |  | ESC | 117 | 3.51 | 1.36 | 5 | 20 | 27 | 25 | 13 | 10 |
|  |  | TR1 | 117 | 3.36 | 1.23 | 7 | 19 | 26 | 31 | 14 | 3 |
|  |  | TR2 | 59 | 3.39 | 1.26 | 3 | 20 | 37 | 20 | 10 | 8 |
|  | Expository_TS | Teacher | 1252 | 3.35 | 1.20 | 5 | 20 | 32 | 26 | 14 | 4 |
|  |  | ESC | 1252 | 3.02 | 1.25 | 11 | 24 | 34 | 18 | 9 | 4 |
|  |  | TR1 | 1252 | 3.08 | 1.16 | 9 | 21 | 35 | 24 | 9 | 2 |
|  |  | TR2 | 268 | 3.05 | 1.10 | 9 | 21 | 37 | 25 | 7 | 1 |
| Timed Sample Prompt | 1000029 | Teacher | 619 | 3.29 | 1.16 | 5 | 22 | 31 | 27 | 12 | 3 |
|  |  | ESC | 619 | 3.01 | 1.26 | 11 | 25 | 33 | 18 | 9 | 4 |
|  |  | TR1 | 619 | 3.14 | 1.12 | 7 | 21 | 36 | 25 | 10 | 2 |
|  |  | TR2 | 118 | 3.18 | 1.06 | 6 | 20 | 33 | 32 | 8 | 1 |
|  | 1000030 | Teacher | 180 | 3.34 | 1.11 | 4 | 17 | 36 | 25 | 16 | 1 |
|  |  | ESC | 180 | 3.05 | 1.28 | 11 | 23 | 34 | 17 | 11 | 4 |
|  |  | TR1 | 180 | 3.02 | 1.11 | 8 | 23 | 37 | 23 | 7 | 2 |
|  |  | TR2 | 33 | 2.94 | 1.20 | 15 | 18 | 30 | 33 | 0 | 3 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1000031 | Teacher | 453 | 3.44 | 1.29 | 6 | 17 | 30 | 25 | 16 | 6 |
|  |  | ESC | 453 | 3.02 | 1.21 | 10 | 23 | 36 | 20 | 7 | 4 |
|  |  | TR1 | 453 | 3.02 | 1.24 | 13 | 20 | 32 | 23 | 9 | 2 |
|  |  | TR2 | 117 | 2.96 | 1.10 | 9 | 22 | 43 | 15 | 9 | 1 |
| Total | Total | Teacher | 1872 | 3.43 | 1.21 | 5 | 17 | 32 | 25 | 16 | 4 |
|  |  | ESC | 1872 | 3.19 | 1.31 | 9 | 22 | 32 | 20 | 11 | 6 |
|  |  | TR1 | 1872 | 3.16 | 1.19 | 8 | 21 | 33 | 25 | 10 | 3 |
|  |  | TR2 | 506 | 3.15 | 1.24 | 9 | 22 | 33 | 23 | 9 | 4 |

TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G2.3 Rater Scores Summary: Grade 7, Language

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 890 | 3.31 | 1.17 | 6 | 19 | 32 | 28 | 13 | 3 |
|  |  | ESC | 890 | 2.97 | 1.26 | 12 | 25 | 32 | 20 | 8 | 4 |
|  |  | TR1 | 890 | 3.00 | 1.13 | 9 | 24 | 35 | 21 | 8 | 1 |
|  |  | TR2 | 185 | 2.96 | 1.03 | 8 | 24 | 37 | 25 | 5 | 1 |
|  | PS1 | Teacher | 383 | 3.66 | 1.14 | 4 | 10 | 28 | 36 | 18 | 4 |
|  |  | ESC | 383 | 3.46 | 1.39 | 9 | 15 | 28 | 23 | 16 | 8 |
|  |  | TR1 | 383 | 3.19 | 1.23 | 9 | 21 | 32 | 24 | 12 | 3 |
|  |  | TR2 | 139 | 2.96 | 1.42 | 16 | 27 | 25 | 15 | 12 | 5 |
|  | PS2 | Teacher | 237 | 3.62 | 1.27 | 5 | 14 | 26 | 28 | 21 | 5 |
|  |  | ESC | 237 | 3.38 | 1.31 | 6 | 21 | 28 | 25 | 13 | 7 |
|  |  | TR1 | 237 | 3.30 | 1.26 | 8 | 19 | 28 | 31 | 7 | 6 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | TR2 | 99 | 3.42 | 1.31 | 5 | 19 | 33 | 22 | 11 | 9 |
|  | TS2 | Teacher | 362 | 3.65 | 1.10 | 2 | 12 | 31 | 35 | 15 | 6 |
|  |  | ESC | 362 | 3.01 | 1.18 | 10 | 25 | 32 | 24 | 6 | 3 |
|  |  | TR1 | 362 | 3.10 | 1.08 | 8 | 18 | 41 | 23 | 7 | 2 |
|  |  | TR2 | 83 | 3.05 | 1.06 | 6 | 23 | 42 | 19 | 8 | 1 |
| Genre | Analytic | Teacher | 126 | 4.24 | 1.08 | 0 | 7 | 15 | 37 | 28 | 13 |
|  |  | ESC | 126 | 3.92 | 1.34 | 3 | 12 | 25 | 25 | 21 | 14 |
|  |  | TR1 | 126 | 3.78 | 1.31 | 6 | 10 | 28 | 25 | 22 | 10 |
|  |  | TR2 | 59 | 4.03 | 1.35 | 2 | 12 | 25 | 20 | 24 | 17 |
|  | Expository | Teacher | 60 | 2.98 | 1.27 | 18 | 12 | 35 | 25 | 8 | 2 |
|  |  | ESC | 60 | 2.52 | 1.13 | 22 | 28 | 32 | 13 | 5 | 0 |
|  |  | TR1 | 60 | 2.52 | 1.03 | 18 | 33 | 27 | 22 | 0 | 0 |
|  |  | TR2 | 60 | 2.17 | 1.03 | 30 | 37 | 22 | 10 | 2 | 0 |
|  | Other | Teacher | 1 |  |  |  |  |  |  |  |  |
|  |  | ESC | 1 |  |  |  |  |  |  |  |  |
|  |  | TR1 | 1 |  |  |  |  |  |  |  |  |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  | Personal Narrative | Teacher | 316 | 3.58 | 1.10 | 4 | 11 | 31 | 35 | 17 | 3 |
|  |  | ESC | 316 | 3.41 | 1.33 | 8 | 16 | 29 | 25 | 15 | 7 |
|  |  | TR1 | 316 | 3.14 | 1.19 | 8 | 21 | 34 | 25 | 8 | 3 |
|  |  | TR2 | 60 | 3.17 | 1.29 | 8 | 27 | 25 | 23 | 13 | 3 |
|  | Persuasive | Teacher | 117 | 3.49 | 1.23 | 5 | 18 | 26 | 26 | 21 | 3 |
|  |  | ESC | 117 | 3.41 | 1.34 | 7 | 21 | 26 | 26 | 13 | 8 |
|  |  | TR1 | 117 | 3.24 | 1.17 | 7 | 21 | 26 | 35 | 7 | 3 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | TR2 | 59 | 3.27 | 1.22 | 5 | 19 | 42 | 19 | 8 | 7 |
|  |  | Teacher | 1252 | 3.41 | 1.16 | 5 | 17 | 31 | 30 | 13 | 4 |
|  |  | ESC | 1252 | 2.98 | 1.24 | 12 | 25 | 32 | 21 | 8 | 3 |
|  |  | TR1 | 1252 | 3.03 | 1.12 | 9 | 23 | 37 | 22 | 8 | 2 |
|  |  | TR2 | 268 | 2.99 | 1.04 | 7 | 24 | 39 | 23 | 6 | 1 |
| Timed Sample Prompt | 1000029 | Teacher | 619 | 3.35 | 1.12 | 4 | 20 | 31 | 31 | 12 | 3 |
|  |  | ESC | 619 | 2.95 | 1.23 | 12 | 25 | 32 | 19 | 9 | 3 |
|  |  | TR1 | 619 | 3.08 | 1.10 | 8 | 21 | 39 | 22 | 9 | 1 |
|  |  | TR2 | 118 | 3.14 | . 98 | 5 | 19 | 42 | 27 | 8 | 0 |
|  | 1000030 | Teacher | 180 | 3.41 | 1.15 | 6 | 14 | 32 | 32 | 13 | 3 |
|  |  | ESC | 180 | 2.98 | 1.25 | 14 | 21 | 33 | 23 | 6 | 4 |
|  |  | TR1 | 180 | 2.98 | 1.10 | 7 | 29 | 33 | 24 | 5 | 2 |
|  |  | TR2 | 33 | 2.94 | 1.14 | 12 | 21 | 33 | 30 | 0 | 3 |
|  | 1000031 | Teacher | 453 | 3.49 | 1.20 | 5 | 15 | 32 | 28 | 15 | 5 |
|  |  | ESC | 453 | 3.02 | 1.24 | 10 | 25 | 31 | 23 | 7 | 4 |
|  |  | TR1 | 453 | 2.98 | 1.15 | 11 | 23 | 36 | 21 | 8 | 2 |
|  |  | TR2 | 117 | 2.85 | 1.06 | 9 | 30 | 38 | 17 | 6 | 1 |
| Total | Total | Teacher | 1872 | 3.49 | 1.17 | 5 | 15 | 30 | 31 | 15 | 4 |
|  |  | ESC | 1872 | 3.13 | 1.30 | 11 | 22 | 30 | 22 | 10 | 5 |
|  |  | TR1 | 1872 | 3.10 | 1.17 | 9 | 22 | 35 | 24 | 9 | 2 |
|  |  | TR2 | 506 | 3.07 | 1.22 | 9 | 24 | 34 | 21 | 9 | 4 |

TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G2.4 Rater Scores Summary: Grade 7, Conventions

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 890 | 3.75 | 1.35 |  | 30 |  | 53 |  | 17 |
|  |  | ESC | 890 | 3.53 | 1.31 |  | 36 |  | 51 |  | 12 |
|  |  | TR1 | 890 | 3.66 | 1.22 |  | 29 |  | 60 |  | 11 |
|  |  | TR2 | 185 | 3.71 | 1.19 |  | 26 |  | 63 |  | 11 |
|  | PS1 | Teacher | 383 | 4.06 | 1.33 |  | 21 |  | 56 |  | 24 |
|  |  | ESC | 383 | 3.98 | 1.41 |  | 25 |  | 51 |  | 24 |
|  |  | TR1 | 383 | 3.70 | 1.40 |  | 33 |  | 49 |  | 18 |
|  |  | TR2 | 139 | 3.53 | 1.50 |  | 42 |  | 39 |  | 19 |
|  | PS2 | Teacher | 237 | 3.98 | 1.43 |  | 26 |  | 49 |  | 25 |
|  |  | ESC | 237 | 3.86 | 1.38 |  | 27 |  | 52 |  | 20 |
|  |  | TR1 | 237 | 3.76 | 1.31 |  | 28 |  | 56 |  | 16 |
|  |  | TR2 | 99 | 3.94 | 1.38 |  | 25 |  | 53 |  | 22 |
|  | TS2 | Teacher | 362 | 4.15 | 1.28 |  | 17 |  | 59 |  | 24 |
|  |  | ESC | 362 | 3.45 | 1.27 |  | 38 |  | 52 |  | 10 |
|  |  | TR1 | 362 | 3.87 | 1.31 |  | 25 |  | 57 |  | 18 |
|  |  | TR2 | 83 | 3.81 | 1.42 |  | 30 |  | 49 |  | 20 |
| Genre | Analytic | Teacher | 126 | 4.68 | 1.24 |  | 8 |  | 50 |  | 42 |
|  |  | ESC | 126 | 4.33 | 1.36 |  | 16 |  | 52 |  | 33 |
|  |  | TR1 | 126 | 4.38 | 1.38 |  | 16 |  | 49 |  | 35 |
|  |  | TR2 | 59 | 4.58 | 1.44 |  | 15 |  | 41 |  | 44 |
|  | Expository | Teacher | 60 | 3.43 | 1.28 |  | 38 |  | 52 |  | 10 |
|  |  | ESC | 60 | 3.17 | 1.18 |  | 47 |  | 48 |  | 5 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | TR1 | 60 | 2.97 | 1.19 |  | 57 |  | 38 |  | 5 |
|  |  | TR2 | 60 | 2.73 | 1.10 |  | 67 |  | 30 |  | 3 |
|  | Other | Teacher | 1 |  |  |  |  |  |  |  |  |
|  |  | ESC | 1 |  |  |  |  |  |  |  |  |
|  |  | TR1 | 1 |  |  |  |  |  |  |  |  |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  | Personal Narrative | Teacher | 316 | 3.92 | 1.33 |  | 24 |  | 56 |  | 20 |
|  |  | ESC | 316 | 3.92 | 1.38 |  | 26 |  | 52 |  | 22 |
|  |  | TR1 | 316 | 3.61 | 1.34 |  | 34 |  | 51 |  | 15 |
|  |  | TR2 | 60 | 3.60 | 1.37 |  | 35 |  | 50 |  | 15 |
|  | Persuasive | Teacher | 117 | 3.91 | 1.40 |  | 26 |  | 51 |  | 22 |
|  |  | ESC | 117 | 3.95 | 1.43 |  | 26 |  | 50 |  | 24 |
|  |  | TR1 | 117 | 3.73 | 1.23 |  | 26 |  | 61 |  | 13 |
|  |  | TR2 | 59 | 3.90 | 1.31 |  | 24 |  | 58 |  | 19 |
|  | Expository_TS | Teacher | 1252 | 3.87 | 1.34 |  | 26 |  | 55 |  | 19 |
|  |  | ESC | 1252 | 3.50 | 1.30 |  | 37 |  | 52 |  | 12 |
|  |  | TR1 | 1252 | 3.72 | 1.25 |  | 27 |  | 59 |  | 13 |
|  |  | TR2 | 268 | 3.74 | 1.26 |  | 27 |  | 59 |  | 14 |
| Timed Sample Prompt | 1000029 | Teacher | 619 | 3.86 | 1.36 |  | 27 |  | 54 |  | 20 |
|  |  | ESC | 619 | 3.51 | 1.33 |  | 37 |  | 50 |  | 13 |
|  |  | TR1 | 619 | 3.76 | 1.24 |  | 26 |  | 60 |  | 14 |
|  |  | TR2 | 118 | 3.85 | 1.29 |  | 25 |  | 58 |  | 17 |
|  | 1000030 | Teacher | 180 | 3.89 | 1.32 |  | 24 |  | 57 |  | 19 |
|  |  | ESC | 180 | 3.54 | 1.33 |  | 36 |  | 51 |  | 13 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | TR1 | 180 | 3.61 | 1.22 |  | 30 |  | 59 |  | 11 |
|  |  | TR2 | 33 | 3.52 | 1.12 |  | 30 |  | 64 |  | 6 |
|  |  | Teacher | 453 | 3.87 | 1.32 |  | 25 |  | 56 |  | 19 |
|  |  | ESC | 453 | 3.48 | 1.25 |  | 36 |  | 54 |  | 10 |
|  |  | TR1 | 453 | 3.70 | 1.26 |  | 29 |  | 58 |  | 13 |
|  |  | TR2 | 117 | 3.69 | 1.28 |  | 29 |  | 57 |  | 14 |
| Total | Total | Teacher | 1872 | 3.92 | 1.35 |  | 25 |  | 54 |  | 21 |
|  |  | ESC | 1872 | 3.65 | 1.35 |  | 33 |  | 51 |  | 15 |
|  |  | TR1 | 1872 | 3.72 | 1.29 |  | 29 |  | 57 |  | 15 |
|  |  | TR2 | 506 | 3.72 | 1.36 |  | 31 |  | 52 |  | 17 |

${ }^{\text {TSS1 }}$ =Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G3.1 Rater Scores Summary: English I, Organization

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 681 | 2.82 | 1.03 | 10 | 28 | 37 | 19 | 5 | 0 |
|  |  | ESC | 681 | 3.14 | 1.16 | 8 | 20 | 35 | 25 | 10 | 2 |
|  |  | TR1 | 681 | 3.14 | 1.14 | 7 | 23 | 33 | 25 | 10 | 2 |
|  |  | TR2 | 147 | 3.05 | 1.11 | 7 | 25 | 36 | 22 | 7 | 2 |
|  | PS1 | Teacher | 289 | 3.20 | 1.12 | 4 | 23 | 37 | 21 | 13 | 1 |
|  |  | ESC | 289 | 3.56 | 1.23 | 3 | 19 | 25 | 32 | 13 | 7 |
|  |  | TR1 | 289 | 3.22 | 1.22 | 6 | 22 | 35 | 21 | 11 | 4 |
|  |  | TR2 | 73 | 3.49 | 1.23 | 4 | 18 | 30 | 25 | 19 | 4 |
|  | PS2 | Teacher | 597 | 3.50 | 1.00 | 2 | 13 | 33 | 39 | 11 | 2 |



| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ESC | 86 | 3.87 | 1.05 | 1 | 7 | 28 | 37 | 21 | 6 |
|  |  | TR1 | 86 | 3.51 | . 99 | 0 | 19 | 28 | 38 | 14 | 1 |
|  |  | TR2 | 59 | 3.41 | 1.04 | 2 | 20 | 27 | 39 | 10 | 2 |
|  |  | Teacher | 1362 | 3.14 | 1.13 | 8 | 20 | 35 | 26 | 10 | 1 |
|  |  | ESC | 1362 | 3.16 | 1.11 | 7 | 20 | 38 | 24 | 10 | 2 |
|  |  | TR1 | 1362 | 3.13 | 1.08 | 6 | 22 | 35 | 27 | 8 | 1 |
|  |  | TR2 | 295 | 3.17 | 1.05 | 5 | 20 | 37 | 29 | 7 | 2 |
|  |  | Teacher | 399 | 3.13 | 1.13 | 8 | 21 | 34 | 26 | 11 | 1 |
|  |  | ESC | 399 | 3.25 | 1.12 | 6 | 18 | 38 | 26 | 11 | 2 |
|  | 1000032 | TR1 | 399 | 3.22 | 1.14 | 6 | 23 | 32 | 28 | 11 | 2 |
|  |  | TR2 | 81 | 3.33 | 1.11 | 4 | 19 | 35 | 31 | 9 | 4 |
|  |  | Teacher | 415 | 3.02 | 1.08 | 8 | 23 | 37 | 23 | 9 | 0 |
| Timed Sample | 1000 | ESC | 415 | 3.06 | 1.15 | 9 | 23 | 33 | 24 | 9 | 2 |
| Prompt |  | TR1 | 415 | 3.11 | 1.12 | 7 | 22 | 34 | 27 | 9 | 1 |
|  |  | TR2 | 93 | 3.06 | 1.06 | 6 | 25 | 32 | 30 | 5 | 1 |
|  |  | Teacher | 548 | 3.24 | 1.15 | 8 | 17 | 34 | 29 | 11 | 2 |
|  |  | ESC | 548 | 3.17 | 1.07 | 6 | 18 | 42 | 23 | 9 | 2 |
|  | 21000001 | TR1 | 548 | 3.08 | 1.02 | 6 | 21 | 39 | 28 | 5 | 1 |
|  |  | TR2 | 121 | 3.13 | 1.01 | 6 | 18 | 41 | 27 | 7 | 1 |
| Total | Total | Teacher | 2248 | 3.25 | 1.10 | 6 | 19 | 34 | 29 | 11 | 1 |
|  |  | ESC | 2248 | 3.37 | 1.17 | 5 | 17 | 33 | 29 | 12 | 4 |
|  |  | TR1 | 2248 | 3.20 | 1.11 | 5 | 21 | 35 | 27 | 9 | 2 |
|  |  | TR2 | 533 | 3.28 | 1.09 | 5 | 19 | 35 | 30 | 10 | 2 |

## TE

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G3.2 Rater Scores Summary: English I, Content

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 681 | 2.93 | 1.07 | 8 | 25 | 41 | 16 | 8 | 1 |
|  |  | ESC | 681 | 2.96 | 1.16 | 10 | 26 | 34 | 20 | 8 | 2 |
|  |  | TR1 | 681 | 3.07 | 1.12 | 7 | 25 | 34 | 23 | 9 | 1 |
|  |  | TR2 | 147 | 2.95 | 1.18 | 11 | 26 | 31 | 24 | 5 | 3 |
|  | PS1 | Teacher | 289 | 3.23 | 1.14 | 4 | 22 | 40 | 16 | 16 | 2 |
|  |  | ESC | 289 | 3.52 | 1.35 | 6 | 17 | 28 | 23 | 17 | 8 |
|  |  | TR1 | 289 | 3.25 | 1.19 | 4 | 23 | 34 | 23 | 10 | 4 |
|  |  | TR2 | 73 | 3.42 | 1.19 | 5 | 14 | 37 | 25 | 15 | 4 |
|  | PS2 | Teacher | 597 | 3.66 | 1.04 | 2 | 12 | 29 | 36 | 19 | 3 |
|  |  | ESC | 597 | 3.62 | 1.23 | 5 | 12 | 28 | 32 | 16 | 7 |
|  |  | TR1 | 597 | 3.37 | 1.08 | 3 | 18 | 36 | 28 | 12 | 3 |
|  |  | TR2 | 165 | 3.33 | 1.08 | 4 | 15 | 39 | 30 | 8 | 4 |
|  | TS2 | Teacher | 681 | 3.41 | 1.11 | 5 | 14 | 34 | 32 | 13 | 2 |
|  |  | ESC | 681 | 3.05 | 1.11 | 6 | 27 | 35 | 22 | 8 | 2 |
|  |  | TR1 | 681 | 3.01 | 1.00 | 5 | 24 | 41 | 23 | 4 | 1 |
|  |  | TR2 | 148 | 3.07 | 1.01 | 5 | 25 | 36 | 28 | 5 | 1 |
| Genre | Analytic | Teacher | 115 | 3.66 | 1.04 | 0 | 12 | 35 | 33 | 15 | 5 |
|  |  | ESC | 115 | 3.76 | 1.29 | 3 | 15 | 28 | 23 | 22 | 10 |
|  |  | TR1 | 115 | 3.33 | 1.12 | 3 | 17 | 46 | 22 | 6 | 7 |
|  |  | TR2 | 59 | 3.58 | 1.21 | 3 | 15 | 31 | 27 | 19 | 5 |
|  | Expository | Teacher | 306 | 3.12 | 1.12 | 5 | 24 | 41 | 15 | 14 | 1 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ESC | 306 | 3.28 | 1.28 | 7 | 21 | 33 | 20 | 14 | 5 |
|  |  | TR1 | 306 | 3.07 | 1.11 | 5 | 27 | 38 | 20 | 8 | 3 |
|  |  | TR2 | 60 | 3.10 | 1.10 | 7 | 20 | 42 | 23 | 5 | 3 |
|  | Other | Teacher | 59 | 4.19 | . 96 | 0 | 3 | 19 | 42 | 27 | 8 |
|  |  | ESC | 59 | 4.44 | 1.30 | 0 | 7 | 20 | 25 | 17 | 31 |
|  |  | TR1 | 59 | 4.31 | 1.05 | 0 | 2 | 24 | 32 | 27 | 15 |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  | Personal Narrative | Teacher | 320 | 3.73 | 1.05 | 2 | 11 | 27 | 36 | 23 | 2 |
|  |  | ESC | 320 | 3.65 | 1.18 | 6 | 9 | 24 | 40 | 16 | 5 |
|  |  | TR1 | 320 | 3.38 | 1.06 | 3 | 17 | 34 | 32 | 13 | 2 |
|  |  | TR2 | 60 | 3.50 | 1.03 | 5 | 5 | 42 | 35 | 10 | 3 |
|  | Persuasive | Teacher | 86 | 3.50 | . 84 | 0 | 12 | 36 | 44 | 7 | 1 |
|  |  | ESC | 86 | 3.66 | 1.15 | 3 | 10 | 31 | 30 | 20 | 5 |
|  |  | TR1 | 86 | 3.42 | 1.00 | 0 | 22 | 29 | 34 | 15 | 0 |
|  |  | TR2 | 59 | 3.27 | 1.06 | 3 | 19 | 39 | 29 | 7 | 3 |
|  | Expository_TS | Teacher | 1362 | 3.17 | 1.12 | 7 | 19 | 38 | 24 | 10 | 2 |
|  |  | ESC | 1362 | 3.00 | 1.13 | 8 | 26 | 35 | 21 | 8 | 2 |
|  |  | TR1 | 1362 | 3.04 | 1.06 | 6 | 25 | 38 | 23 | 7 | 1 |
|  |  | TR2 | 295 | 3.01 | 1.10 | 8 | 25 | 34 | 26 | 5 | 2 |
| Timed Sample Prompt | 1000032 | Teacher | 399 | 3.14 | 1.05 | 6 | 19 | 41 | 25 | 8 | 1 |
|  |  | ESC | 399 | 3.06 | 1.13 | 9 | 23 | 35 | 23 | 10 | 1 |
|  |  | TR1 | 399 | 3.15 | 1.08 | 4 | 25 | 35 | 25 | 10 | 2 |
|  |  | TR2 | 81 | 3.25 | 1.15 | 2 | 27 | 30 | 30 | 6 | 5 |
|  | 1000033 | Teacher | 415 | 3.10 | 1.12 | 7 | 23 | 39 | 18 | 13 | 1 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ESC | 415 | 2.94 | 1.14 | 9 | 27 | 35 | 20 | 6 | 2 |
|  |  | TR1 | 415 | 3.07 | 1.10 | 7 | 25 | 33 | 26 | 8 | 1 |
|  |  | TR2 | 93 | 2.90 | 1.19 | 16 | 18 | 32 | 27 | 5 | 1 |
|  |  | Teacher | 548 | 3.25 | 1.16 | 7 | 18 | 34 | 28 | 10 | 3 |
|  |  | ESC | 548 | 3.01 | 1.13 | 7 | 28 | 35 | 20 | 8 | 2 |
|  |  | TR1 | 548 | 2.94 | 1.01 | 7 | 24 | 43 | 21 | 4 | 1 |
|  |  | TR2 | 121 | 2.93 | . 98 | 5 | 30 | 38 | 22 | 4 | 1 |
| Total | Total | Teacher | 2248 | 3.31 | 1.12 | 5 | 18 | 36 | 26 | 13 | 2 |
|  |  | ESC | 2248 | 3.23 | 1.22 | 7 | 21 | 32 | 24 | 11 | 4 |
|  |  | TR1 | 2248 | 3.16 | 1.09 | 5 | 23 | 37 | 25 | 8 | 2 |
|  |  | TR2 | 533 | 3.17 | 1.12 | 6 | 21 | 36 | 27 | 7 | 3 |

TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G3.3 Rater Scores Summary: English I, Language

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 681 | 2.88 | 1.06 | 10 | 26 | 37 | 21 | 6 | 0 |
|  |  | ESC | 681 | 2.98 | 1.11 | 9 | 26 | 34 | 25 | 6 | 2 |
|  |  | TR1 | 681 | 3.04 | 1.11 | 7 | 26 | 35 | 22 | 9 | 1 |
|  |  | TR2 | 147 | 2.98 | 1.10 | 7 | 28 | 33 | 25 | 5 | 2 |
|  | PS1 | Teacher | 289 | 3.31 | 1.11 | 4 | 18 | 39 | 23 | 13 | 2 |
|  |  | ESC | 289 | 3.44 | 1.21 | 5 | 18 | 30 | 28 | 15 | 4 |
|  |  | TR1 | 289 | 3.22 | 1.16 | 5 | 22 | 36 | 23 | 10 | 4 |
|  |  | TR2 | 73 | 3.48 | 1.19 | 4 | 15 | 36 | 23 | 18 | 4 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PS2 | Teacher | 597 | 3.53 | 1.03 | 2 | 14 | 30 | 39 | 13 | 2 |
|  |  | ESC | 597 | 3.46 | 1.15 | 6 | 12 | 34 | 33 | 11 | 5 |
|  |  | TR1 | 597 | 3.34 | 1.09 | 3 | 20 | 35 | 28 | 12 | 3 |
|  |  | TR2 | 165 | 3.25 | 1.03 | 4 | 17 | 41 | 28 | 8 | 2 |
|  | TS2 | Teacher | 681 | 3.35 | 1.07 | 7 | 11 | 36 | 33 | 11 | 1 |
|  |  | ESC | 681 | 3.15 | 1.04 | 5 | 20 | 38 | 27 | 7 | 1 |
|  |  | TR1 | 681 | 2.99 | 1.00 | 6 | 24 | 41 | 23 | 4 | 1 |
|  |  | TR2 | 148 | 3.13 | 1.03 | 5 | 22 | 36 | 30 | 7 | 1 |
| Genre | Analytic | Teacher | 115 | 3.48 | 1.05 | 0 | 17 | 40 | 28 | 10 | 5 |
|  |  | ESC | 115 | 3.62 | 1.16 | 3 | 13 | 29 | 32 | 18 | 4 |
|  |  | TR1 | 115 | 3.27 | 1.12 | 3 | 20 | 44 | 19 | 9 | 5 |
|  |  | TR2 | 59 | 3.51 | 1.17 | 3 | 15 | 34 | 25 | 19 | 3 |
|  | Expository | Teacher | 306 | 3.26 | 1.11 | 5 | 19 | 39 | 23 | 12 | 2 |
|  |  | ESC | 306 | 3.21 | 1.15 | 6 | 22 | 35 | 25 | 11 | 3 |
|  |  | TR1 | 306 | 3.03 | 1.09 | 5 | 28 | 38 | 20 | 7 | 3 |
|  |  | TR2 | 60 | 3.17 | 1.12 | 5 | 22 | 40 | 22 | 8 | 3 |
|  | Other | Teacher | 59 | 4.25 | 1.04 | 0 | 3 | 22 | 32 | 31 | 12 |
|  |  | ESC | 59 | 4.22 | 1.18 | 0 | 5 | 25 | 31 | 20 | 19 |
|  |  | TR1 | 59 | 4.34 | 1.04 | 0 | 2 | 22 | 32 | 29 | 15 |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  | Personal Narrative | Teacher | 320 | 3.53 | . 96 | 3 | 11 | 30 | 43 | 13 | 0 |
|  |  | ESC | 320 | 3.46 | 1.14 | 7 | 10 | 32 | 38 | 9 | 4 |
|  |  | TR1 | 320 | 3.35 | 1.05 | 3 | 18 | 34 | 32 | 12 | 1 |
|  |  | TR2 | 60 | 3.50 | . 98 | 5 | 5 | 38 | 40 | 10 | 2 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Persuasive | Teacher | 86 | 3.37 | . 98 | 0 | 26 | 21 | 45 | 7 | 1 |
|  |  | ESC | 86 | 3.58 | 1.08 | 3 | 9 | 35 | 34 | 15 | 3 |
|  |  | TR1 | 86 | 3.41 | . 99 | 0 | 22 | 29 | 35 | 14 | 0 |
|  |  | TR2 | 59 | 3.10 | 1.03 | 3 | 24 | 44 | 19 | 8 | 2 |
|  | Expository_TS | Teacher | 1362 | 3.11 | 1.09 | 8 | 19 | 37 | 27 | 9 | 1 |
|  |  | ESC | 1362 | 3.06 | 1.08 | 7 | 23 | 36 | 26 | 7 | 1 |
|  |  | TR1 | 1362 | 3.01 | 1.06 | 7 | 25 | 38 | 23 | 7 | 1 |
|  |  | TR2 | 295 | 3.05 | 1.06 | 6 | 25 | 34 | 27 | 6 | 1 |
| Timed Sample Prompt | 1000032 | Teacher | 399 | 3.14 | 1.08 | 7 | 20 | 36 | 28 | 9 | 1 |
|  |  | ESC | 399 | 3.15 | 1.09 | 6 | 22 | 34 | 29 | 8 | 2 |
|  |  | TR1 | 399 | 3.11 | 1.12 | 6 | 26 | 33 | 24 | 9 | 2 |
|  |  | TR2 | 81 | 3.26 | 1.10 | 4 | 21 | 37 | 25 | 11 | 2 |
|  | 1000033 | Teacher | 415 | 2.99 | 1.08 | 9 | 22 | 37 | 23 | 8 | 0 |
|  |  | ESC | 415 | 2.93 | 1.09 | 9 | 27 | 34 | 25 | 4 | 2 |
|  |  | TR1 | 415 | 3.01 | 1.07 | 7 | 25 | 37 | 23 | 7 | 1 |
|  |  | TR2 | 93 | 2.98 | 1.09 | 10 | 24 | 32 | 29 | 4 | 1 |
|  | 21000001 | Teacher | 548 | 3.19 | 1.09 | 8 | 15 | 37 | 30 | 9 | 1 |
|  |  | ESC | 548 | 3.11 | 1.05 | 6 | 21 | 40 | 25 | 7 | 1 |
|  |  | TR1 | 548 | 2.94 | . 99 | 7 | 25 | 42 | 22 | 4 | 1 |
|  |  | TR2 | 121 | 2.98 | 1.00 | 6 | 28 | 34 | 28 | 3 | 1 |
| Total | Total | Teacher | 2248 | 3.25 | 1.09 | 6 | 17 | 35 | 30 | 10 | 1 |
|  |  | ESC | 2248 | 3.22 | 1.13 | 6 | 20 | 35 | 28 | 9 | 3 |
|  |  | TR1 | 2248 | 3.13 | 1.09 | 5 | 23 | 37 | 24 | 8 | 2 |
|  |  | TR2 | 533 | 3.17 | 1.08 | 5 | 21 | 36 | 27 | 8 | 2 |

## TE

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G3.4 Rater Scores Summary: English I, Conventions

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 681 | 3.34 | 1.28 |  | 42 |  | 48 |  | 9 |
|  |  | ESC | 681 | 3.65 | 1.26 |  | 30 |  | 57 |  | 13 |
|  |  | TR1 | 681 | 3.65 | 1.28 |  | 31 |  | 56 |  | 13 |
|  |  | TR2 | 147 | 3.63 | 1.22 |  | 29 |  | 60 |  | 11 |
|  | PS1 | Teacher | 289 | 3.90 | 1.34 |  | 25 |  | 55 |  | 20 |
|  |  | ESC | 289 | 4.09 | 1.40 |  | 22 |  | 51 |  | 27 |
|  |  | TR1 | 289 | 3.83 | 1.32 |  | 26 |  | 56 |  | 18 |
|  |  | TR2 | 73 | 3.81 | 1.34 |  | 27 |  | 55 |  | 18 |
|  | PS2 | Teacher | 597 | 3.87 | 1.15 |  | 20 |  | 66 |  | 13 |
|  |  | ESC | 597 | 3.77 | 1.29 |  | 27 |  | 57 |  | 16 |
|  |  | TR1 | 597 | 3.81 | 1.19 |  | 23 |  | 64 |  | 13 |
|  |  | TR2 | 165 | 3.75 | 1.06 |  | 21 |  | 70 |  | 8 |
|  | TS2 | Teacher | 681 | 3.99 | 1.30 |  | 21 |  | 58 |  | 21 |
|  |  | ESC | 681 | 3.79 | . 99 |  | 18 |  | 75 |  | 7 |
|  |  | TR1 | 681 | 3.64 | 1.16 |  | 28 |  | 63 |  | 9 |
|  |  | TR2 | 148 | 3.69 | 1.11 |  | 24 |  | 67 |  | 9 |
| Genre | Analytic | Teacher | 115 | 3.77 | 1.18 |  | 23 |  | 64 |  | 12 |
|  |  | ESC | 115 | 4.05 | 1.46 |  | 25 |  | 47 |  | 28 |
|  |  | TR1 | 115 | 3.95 | 1.20 |  | 19 |  | 64 |  | 17 |
|  |  | TR2 | 59 | 3.93 | 1.28 |  | 22 |  | 59 |  | 19 |
|  | Expository | Teacher | 306 | 3.94 | 1.37 |  | 25 |  | 53 |  | 22 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ESC | 306 | 3.82 | 1.40 |  | 29 |  | 51 |  | 20 |
|  |  | TR1 | 306 | 3.60 | 1.25 |  | 31 |  | 57 |  | 11 |
|  |  | TR2 | 60 | 3.53 | 1.24 |  | 33 |  | 57 |  | 10 |
|  | Other | Teacher | 59 | 4.92 | 1.19 |  | 5 |  | 44 |  | 51 |
|  |  | ESC | 59 | 4.41 | 1.22 |  | 10 |  | 59 |  | 31 |
|  |  | TR1 | 59 | 4.92 | 1.07 |  | 2 |  | 51 | 47 |  |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  | Personal Narrative | Teacher | 320 | 3.78 | . 98 |  | 18 |  | 75 |  | 7 |
|  |  | ESC | 320 | 3.72 | 1.18 |  | 25 |  | 63 |  | 11 |
|  |  | TR1 | 320 | 3.76 | 1.17 |  | 24 |  | 64 |  | 12 |
|  |  | TR2 | 60 | 3.90 | 1.00 |  | 15 |  | 75 |  | 10 |
|  | Persuasive | Teacher | 86 | 3.47 | 1.12 |  | 33 |  | 62 |  | 6 |
|  |  | ESC | 86 | 4.05 | 1.41 |  | 23 |  | 51 |  | 26 |
|  |  | TR1 | 86 | 3.84 | 1.16 |  | 21 |  | 66 |  | 13 |
|  |  | TR2 | 59 | 3.69 | 1.04 |  | 22 |  | 71 |  | 7 |
|  | Expository_TS | Teacher | 1362 | 3.66 | 1.33 |  | 32 |  | 53 |  | 15 |
|  |  | ESC | 1362 | 3.72 | 1.13 |  | 24 |  | 66 |  | 10 |
|  |  | TR1 | 1362 | 3.64 | 1.22 |  | 29 |  | 59 |  | 11 |
|  |  | TR2 | 295 | 3.66 | 1.16 |  | 27 |  | 63 |  | 10 |
| Timed Sample Prompt | 1000032 | Teacher | 399 | 3.69 | 1.35 |  | 32 |  | 52 |  | 16 |
|  |  | ESC | 399 | 3.80 | 1.10 |  | 21 |  | 69 |  | 11 |
|  |  | TR1 | 399 | 3.73 | 1.25 |  | 27 |  | 59 |  | 14 |
|  |  | TR2 | 81 | 3.83 | 1.15 |  | 21 |  | 67 |  | 12 |
|  | 1000033 | Teacher | 415 | 3.57 | 1.37 |  | 36 |  | 49 |  | 15 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ESC | 415 | 3.59 | 1.21 |  | 31 |  | 59 |  | 10 |
|  |  | TR1 | 415 | 3.63 | 1.26 |  | 31 |  | 57 |  | 12 |
|  |  | TR2 | 93 | 3.44 | 1.16 |  | 34 |  | 59 |  | 6 |
|  |  | Teacher | 548 | 3.71 | 1.27 |  | 28 |  | 57 |  | 14 |
|  |  | ESC | 548 | 3.76 | 1.09 |  | 22 |  | 69 |  | 9 |
|  |  | TR1 | 548 | 3.59 | 1.17 |  | 29 |  | 62 |  | 9 |
|  |  | TR2 | 121 | 3.72 | 1.16 |  | 25 |  | 64 |  | 11 |
| Total | Total | Teacher | 2248 | 3.75 | 1.29 |  | 28 |  | 57 |  | 15 |
|  |  | ESC | 2248 | 3.78 | 1.22 |  | 25 |  | 62 |  | 14 |
|  |  | TR1 | 2248 | 3.71 | 1.23 |  | 27 |  | 60 |  | 13 |
|  |  | TR2 | 533 | 3.71 | 1.16 |  | 25 |  | 64 |  | 11 |

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G4.1 Rater Scores Summary: English II, Organization

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 469 | 3.35 | 1.08 | 3 | 20 | 29 | 34 | 12 | 1 |
|  |  | ESC | 469 | 3.48 | 1.29 | 6 | 16 | 31 | 27 | 12 | 9 |
|  |  | TR1 | 469 | 3.24 | 1.08 | 5 | 20 | 33 | 32 | 7 | 3 |
|  |  | TR2 | 102 | 3.19 | 1.11 | 5 | 22 | 38 | 24 | 9 | 3 |
|  | PS1 | Teacher | 431 | 3.98 | 1.12 | 1 | 7 | 25 | 36 | 20 | 10 |
|  |  | ESC | 431 | 3.40 | . 99 | 2 | 14 | 42 | 30 | 9 | 3 |
|  |  | TR1 | 431 | 3.45 | 1.09 | 2 | 18 | 33 | 31 | 13 | 3 |
|  |  | TR2 | 77 | 3.39 | 1.02 | 0 | 22 | 31 | 35 | 9 | 3 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PS2 | Teacher | 428 | 3.77 | 1.03 | 1 | 10 | 26 | 39 | 20 | 3 |
|  |  | ESC | 428 | 3.44 | 1.11 | 2 | 21 | 29 | 32 | 13 | 3 |
|  |  | TR1 | 428 | 3.29 | . 98 | 3 | 16 | 43 | 28 | 8 | 2 |
|  |  | TR2 | 163 | 3.39 | 1.05 | 2 | 15 | 42 | 30 | 6 | 6 |
|  | TS2 | Teacher | 387 | 3.87 | 1.16 | 3 | 11 | 19 | 36 | 26 | 5 |
|  |  | ESC | 387 | 3.39 | 1.04 | 3 | 14 | 39 | 32 | 10 | 3 |
|  |  | TR1 | 387 | 2.95 | 1.05 | 8 | 24 | 38 | 24 | 4 | 2 |
|  |  | TR2 | 65 | 2.95 | 1.16 | 14 | 17 | 38 | 23 | 6 | 2 |
| Genre | Analytic | Teacher | 160 | 3.67 | . 94 | 0 | 11 | 31 | 39 | 18 | 1 |
|  |  | ESC | 160 | 3.36 | 1.12 | 1 | 24 | 31 | 28 | 12 | 4 |
|  |  | TR1 | 160 | 3.75 | 1.02 | 1 | 9 | 31 | 38 | 18 | 4 |
|  |  | TR2 | 60 | 3.78 | 1.11 | 0 | 12 | 28 | 40 | 10 | 10 |
|  | Expository | Teacher | 183 | 4.12 | 1.19 | 2 | 8 | 19 | 35 | 23 | 14 |
|  |  | ESC | 183 | 3.56 | 1.05 | 1 | 13 | 39 | 28 | 15 | 4 |
|  |  | TR1 | 183 | 3.42 | 1.18 | 2 | 24 | 29 | 25 | 16 | 4 |
|  |  | TR2 | 60 | 3.18 | 1.02 | 0 | 28 | 37 | 27 | 5 | 3 |
|  | Other | Teacher | 161 | 4.17 | 1.15 | 0 | 7 | 22 | 31 | 25 | 14 |
|  |  | ESC | 161 | 3.32 | . 94 | 3 | 14 | 41 | 34 | 7 | 1 |
|  |  | TR1 | 161 | 3.43 | 1.09 | 4 | 17 | 29 | 36 | 12 | 2 |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  | Personal Narrative | Teacher | 98 | 3.76 | 1.21 | 5 | 10 | 22 | 33 | 26 | 4 |
|  |  | ESC | 98 | 3.80 | 1.13 | 1 | 12 | 24 | 39 | 15 | 8 |
|  |  | TR1 | 98 | 3.49 | . 88 | 1 | 8 | 44 | 37 | 8 | 2 |
|  |  | TR2 | 60 | 3.50 | . 98 | 2 | 10 | 42 | 33 | 10 | 3 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Teacher | 257 | 3.69 | . 89 | 1 | 7 | 32 | 44 | 14 | 2 |
|  |  | ESC | 257 | 3.28 | 1.01 | 3 | 20 | 36 | 32 | 9 | 1 |
|  |  | TR1 | 257 | 3.01 | . 85 | 4 | 19 | 52 | 21 | 3 | 0 |
|  |  | TR2 | 60 | 3.08 | . 91 | 3 | 20 | 47 | 27 | 2 | 2 |
|  |  | Teacher | 856 | 3.59 | 1.15 | 3 | 16 | 25 | 35 | 18 | 3 |
|  |  | ESC | 856 | 3.44 | 1.18 | 5 | 15 | 34 | 29 | 11 | 6 |
|  |  | TR1 | 856 | 3.11 | 1.08 | 7 | 22 | 36 | 29 | 5 | 2 |
|  |  | TR2 | 167 | 3.10 | 1.14 | 8 | 20 | 38 | 23 | 8 | 2 |
|  |  | Teacher | 284 | 3.46 | 1.17 | 4 | 20 | 26 | 30 | 17 | 3 |
|  |  | ESC | 284 | 3.29 | 1.18 | 7 | 15 | 36 | 29 | 9 | 4 |
|  |  | TR1 | 284 | 3.02 | 1.10 | 8 | 23 | 35 | 26 | 5 | 2 |
|  |  | TR2 | 62 | 2.85 | 1.02 | 10 | 26 | 39 | 21 | 5 | 0 |
|  |  | Teacher | 308 | 3.63 | 1.08 | 2 | 15 | 24 | 41 | 15 | 4 |
| Timed Sample |  | ESC | 308 | 3.47 | 1.18 | 4 | 15 | 36 | 28 | 10 | 7 |
| Prompt |  | TR1 | 308 | 3.14 | 1.03 | 5 | 23 | 36 | 31 | 5 | 2 |
|  |  | TR2 | 59 | 3.20 | 1.20 | 8 | 15 | 42 | 19 | 12 | 3 |
|  |  | Teacher | 264 | 3.67 | 1.19 | 4 | 13 | 23 | 33 | 23 | 3 |
|  |  | ESC | 264 | 3.56 | 1.18 | 3 | 16 | 31 | 30 | 14 | 6 |
|  |  | TR1 | 264 | 3.17 | 1.11 | 7 | 19 | 36 | 29 | 6 | 3 |
|  |  | TR2 | 46 | 3.28 | 1.17 | 7 | 17 | 33 | 33 | 7 | 4 |
| Total | Total | Teacher | 1715 | 3.73 | 1.12 | 2 | 12 | 25 | 36 | 19 | 5 |
|  |  | ESC | 1715 | 3.43 | 1.12 | 3 | 16 | 35 | 30 | 11 | 5 |
|  |  | TR1 | 1715 | 3.24 | 1.07 | 4 | 19 | 37 | 29 | 8 | 2 |
|  |  | TR2 | 407 | 3.27 | 1.09 | 4 | 18 | 38 | 28 | 7 | 4 |

## TE

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G4.2 Rater Scores Summary: English II, Content

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 469 | 3.39 | 1.15 | 4 | 21 | 27 | 31 | 16 | 2 |
|  |  | ESC | 469 | 3.16 | 1.29 | 9 | 23 | 36 | 16 | 11 | 6 |
|  |  | TR1 | 469 | 3.14 | 1.15 | 6 | 24 | 34 | 25 | 9 | 3 |
|  |  | TR2 | 102 | 3.13 | 1.19 | 7 | 25 | 31 | 24 | 10 | 3 |
|  | PS1 | Teacher | 431 | 3.90 | 1.15 | 1 | 9 | 29 | 27 | 26 | 8 |
|  |  | ESC | 431 | 3.24 | 1.07 | 3 | 23 | 35 | 27 | 9 | 3 |
|  |  | TR1 | 431 | 3.45 | 1.10 | 2 | 17 | 33 | 33 | 10 | 4 |
|  |  | TR2 | 77 | 3.42 | 1.10 | 0 | 26 | 25 | 35 | 10 | 4 |
|  | PS2 | Teacher | 428 | 3.83 | . 99 | 0 | 9 | 26 | 39 | 23 | 3 |
|  |  | ESC | 428 | 3.42 | 1.07 | 1 | 17 | 41 | 25 | 12 | 4 |
|  |  | TR1 | 428 | 3.29 | . 99 | 2 | 17 | 45 | 25 | 9 | 2 |
|  |  | TR2 | 163 | 3.37 | 1.02 | 2 | 16 | 41 | 29 | 8 | 4 |
|  | TS2 | Teacher | 387 | 3.85 | 1.19 | 4 | 9 | 21 | 36 | 24 | 6 |
|  |  | ESC | 387 | 2.96 | 1.10 | 9 | 23 | 41 | 19 | 5 | 2 |
|  |  | TR1 | 387 | 2.93 | 1.15 | 10 | 26 | 37 | 18 | 7 | 2 |
|  |  | TR2 | 65 | 2.89 | 1.17 | 14 | 22 | 34 | 26 | 2 | 3 |
| Genre | Analytic | Teacher | 160 | 3.61 | . 90 | 0 | 10 | 36 | 39 | 13 | 2 |
|  |  | ESC | 160 | 3.51 | . 98 | 0 | 14 | 37 | 36 | 8 | 4 |
|  |  | TR1 | 160 | 3.74 | 1.02 | 1 | 9 | 33 | 36 | 16 | 5 |
|  |  | TR2 | 60 | 3.73 | 1.06 | 0 | 12 | 30 | 38 | 13 | 7 |
|  | Expository | Teacher | 183 | 3.97 | 1.17 | 2 | 11 | 20 | 22 | 42 | 2 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ESC | 183 | 3.42 | 1.14 | 2 | 20 | 37 | 22 | 15 | 4 |
|  |  | TR1 | 183 | 3.51 | 1.22 | 2 | 21 | 29 | 27 | 14 | 7 |
|  |  | TR2 | 60 | 3.25 | 1.11 | 0 | 30 | 32 | 27 | 7 | 5 |
|  | Other | Teacher | 161 | 4.19 | 1.16 | 0 | 7 | 22 | 33 | 21 | 17 |
|  |  | ESC | 161 | 3.18 | 1.04 | 5 | 22 | 31 | 34 | 7 | 1 |
|  |  | TR1 | 161 | 3.39 | 1.08 | 4 | 17 | 30 | 37 | 10 | 2 |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  | Personal Narrative | Teacher | 98 | 3.74 | 1.12 | 1 | 13 | 29 | 28 | 27 | 3 |
|  |  | ESC | 98 | 3.69 | 1.15 | 2 | 11 | 35 | 24 | 22 | 5 |
|  |  | TR1 | 98 | 3.54 | . 89 | 1 | 7 | 43 | 37 | 10 | 2 |
|  |  | TR2 | 60 | 3.50 | 1.00 | 2 | 13 | 35 | 35 | 13 | 2 |
|  | Persuasive | Teacher | 257 | 3.80 | . 97 | 1 | 6 | 32 | 39 | 19 | 4 |
|  |  | ESC | 257 | 3.10 | 1.00 | 2 | 25 | 46 | 18 | 6 | 3 |
|  |  | TR1 | 257 | 2.96 | . 82 | 3 | 22 | 54 | 18 | 2 | 1 |
|  |  | TR2 | 60 | 3.05 | . 91 | 3 | 22 | 47 | 25 | 2 | 2 |
|  | Persuasive_TS | Teacher | 856 | 3.60 | 1.19 | 4 | 16 | 24 | 33 | 20 | 4 |
|  |  | ESC | 856 | 3.07 | 1.21 | 9 | 23 | 38 | 18 | 8 | 4 |
|  |  | TR1 | 856 | 3.05 | 1.16 | 8 | 25 | 35 | 21 | 8 | 3 |
|  |  | TR2 | 167 | 3.04 | 1.19 | 10 | 24 | 32 | 25 | 7 | 3 |
| Timed Sample Prompt | 1000035 | Teacher | 284 | 3.46 | 1.18 | 4 | 20 | 24 | 31 | 18 | 2 |
|  |  | ESC | 284 | 2.93 | 1.21 | 11 | 26 | 35 | 18 | 6 | 4 |
|  |  | TR1 | 284 | 2.96 | 1.13 | 10 | 25 | 35 | 23 | 6 | 2 |
|  |  | TR2 | 62 | 2.76 | 1.07 | 13 | 31 | 26 | 29 | 2 | 0 |
|  | 1000036 | Teacher | 308 | 3.62 | 1.11 | 3 | 14 | 27 | 36 | 18 | 3 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ESC | 308 | 3.11 | 1.22 | 8 | 21 | 40 | 18 | 8 | 5 |
|  |  | TR1 | 308 | 3.05 | 1.13 | 6 | 27 | 36 | 22 | 6 | 3 |
|  |  | TR2 | 59 | 3.15 | 1.24 | 8 | 20 | 37 | 20 | 8 | 5 |
|  |  | Teacher | 264 | 3.72 | 1.27 | 5 | 13 | 21 | 32 | 23 | 6 |
|  |  | ESC | 264 | 3.17 | 1.21 | 7 | 22 | 39 | 17 | 11 | 4 |
|  |  | TR1 | 264 | 3.14 | 1.22 | 8 | 22 | 35 | 20 | 12 | 3 |
|  |  | TR2 | 46 | 3.26 | 1.22 | 7 | 20 | 35 | 24 | 11 | 4 |
| Total | Total | Teacher | 1715 | 3.73 | 1.14 | 2 | 12 | 26 | 33 | 22 | 5 |
|  |  | ESC | 1715 | 3.20 | 1.15 | 5 | 21 | 38 | 22 | 9 | 4 |
|  |  | TR1 | 1715 | 3.21 | 1.11 | 5 | 21 | 37 | 25 | 9 | 3 |
|  |  | TR2 | 407 | 3.24 | 1.12 | 5 | 21 | 34 | 29 | 8 | 3 |

TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix " TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G4.3 Rater Scores Summary: English II, Language

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 469 | 3.44 | 1.10 | 3 | 19 | 27 | 35 | 14 | 2 |
|  |  | ESC | 469 | 3.25 | 1.25 | 7 | 19 | 35 | 24 | 8 | 6 |
|  |  | TR1 | 469 | 3.12 | 1.11 | 6 | 22 | 38 | 23 | 8 | 2 |
|  |  | TR2 | 102 | 3.13 | 1.11 | 5 | 23 | 42 | 20 | 7 | 4 |
|  | PS1 | Teacher | 431 | 3.95 | 1.13 | 0 | 9 | 29 | 30 | 23 | 10 |
|  |  | ESC | 431 | 3.32 | . 99 | 2 | 17 | 39 | 30 | 9 | 2 |
|  |  | TR1 | 431 | 3.42 | 1.02 | 1 | 17 | 36 | 32 | 11 | 3 |
|  |  | TR2 | 77 | 3.38 | . 97 | 0 | 19 | 38 | 30 | 12 | 1 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PS2 | Teacher | 428 | 3.78 | . 96 | 1 | 7 | 28 | 43 | 19 | 2 |
|  |  | ESC | 428 | 3.39 | 1.05 | 2 | 18 | 38 | 28 | 12 | 3 |
|  |  | TR1 | 428 | 3.27 | . 98 | 2 | 17 | 45 | 26 | 7 | 2 |
|  |  | TR2 | 163 | 3.33 | 1.05 | 2 | 18 | 42 | 28 | 6 | 5 |
|  | TS2 | Teacher | 387 | 3.85 | 1.14 | 4 | 8 | 19 | 42 | 22 | 5 |
|  |  | ESC | 387 | 3.02 | 1.12 | 8 | 25 | 36 | 24 | 4 | 3 |
|  |  | TR1 | 387 | 2.81 | 1.13 | 13 | 25 | 39 | 16 | 5 | 2 |
|  |  | TR2 | 65 | 2.82 | 1.09 | 14 | 22 | 38 | 23 | 2 | 2 |
| Genre | Analytic | Teacher | 160 | 3.71 | . 93 | 2 | 4 | 34 | 42 | 15 | 3 |
|  |  | ESC | 160 | 3.43 | 1.04 | 1 | 19 | 31 | 36 | 9 | 3 |
|  |  | TR1 | 160 | 3.76 | 1.01 | 1 | 9 | 29 | 41 | 15 | 5 |
|  |  | TR2 | 60 | 3.70 | 1.14 | 0 | 13 | 33 | 33 | 10 | 10 |
|  | Expository | Teacher | 183 | 4.21 | 1.13 | 1 | 8 | 19 | 25 | 38 | 10 |
|  |  | ESC | 183 | 3.41 | 1.09 | 1 | 19 | 38 | 26 | 11 | 4 |
|  |  | TR1 | 183 | 3.44 | 1.14 | 1 | 22 | 34 | 25 | 14 | 5 |
|  |  | TR2 | 60 | 3.18 | . 93 | 0 | 23 | 45 | 23 | 7 | 2 |
|  | Other | Teacher | 161 | 4.09 | 1.16 | 0 | 8 | 24 | 34 | 19 | 15 |
|  |  | ESC | 161 | 3.32 | . 95 | 4 | 14 | 37 | 36 | 9 | 0 |
|  |  | TR1 | 161 | 3.37 | 1.01 | 2 | 19 | 33 | 35 | 11 | 1 |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  | Personal Narrative | Teacher | 98 | 3.64 | 1.05 | 2 | 13 | 24 | 41 | 17 | 2 |
|  |  | ESC | 98 | 3.64 | 1.09 | 2 | 9 | 38 | 30 | 16 | 5 |
|  |  | TR1 | 98 | 3.46 | . 92 | 1 | 10 | 45 | 32 | 10 | 2 |
|  |  | TR2 | 60 | 3.45 | 1.08 | 2 | 17 | 37 | 28 | 13 | 3 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Teacher | 257 | 3.66 | . 91 | 1 | 8 | 35 | 40 | 16 | 1 |
|  |  | ESC | 257 | 3.18 | . 95 | 2 | 21 | 46 | 22 | 9 | 1 |
|  |  | TR1 | 257 | 2.96 | . 79 | 4 | 20 | 55 | 20 | 1 | 0 |
|  |  | TR2 | 60 | 3.05 | . 83 | 3 | 20 | 47 | 28 | 2 | 0 |
|  |  | Teacher | 856 | 3.63 | 1.13 | 3 | 14 | 23 | 38 | 18 | 3 |
|  |  | ESC | 856 | 3.15 | 1.20 | 8 | 22 | 35 | 24 | 6 | 5 |
|  |  | TR1 | 856 | 2.98 | 1.13 | 9 | 23 | 38 | 20 | 7 | 2 |
|  |  | TR2 | 167 | 3.01 | 1.11 | 8 | 22 | 41 | 21 | 5 | 3 |
|  |  | Teacher | 284 | 3.50 | 1.17 | 5 | 18 | 23 | 36 | 16 | 3 |
|  |  | ESC | 284 | 3.06 | 1.20 | 10 | 21 | 37 | 23 | 5 | 5 |
|  |  | TR1 | 284 | 2.88 | 1.14 | 10 | 29 | 34 | 19 | 6 | 2 |
|  |  | TR2 | 62 | 2.81 | 1.04 | 10 | 27 | 42 | 16 | 3 | 2 |
|  |  | Teacher | 308 | 3.64 | 1.04 | 2 | 13 | 26 | 42 | 16 | 3 |
| Timed Sample |  | ESC | 308 | 3.14 | 1.21 | 7 | 22 | 37 | 21 | 7 | 5 |
| Prompt |  | TR1 | 308 | 2.99 | 1.09 | 8 | 24 | 40 | 20 | 6 | 2 |
|  |  | TR2 | 59 | 3.12 | 1.15 | 8 | 17 | 42 | 22 | 7 | 3 |
|  |  | Teacher | 264 | 3.74 | 1.19 | 4 | 13 | 20 | 36 | 23 | 5 |
|  |  | ESC | 264 | 3.25 | 1.18 | 5 | 22 | 32 | 28 | 7 | 5 |
|  |  | TR1 | 264 | 3.09 | 1.16 | 10 | 17 | 42 | 20 | 9 | 3 |
|  |  | TR2 | 46 | 3.13 | 1.15 | 7 | 22 | 37 | 26 | 4 | 4 |
| Total | Total | Teacher | 1715 | 3.75 | 1.10 | 2 | 11 | 26 | 37 | 20 | 5 |
|  |  | ESC | 1715 | 3.25 | 1.12 | 5 | 20 | 37 | 27 | 8 | 4 |
|  |  | TR1 | 1715 | 3.16 | 1.08 | 5 | 20 | 39 | 24 | 8 | 2 |
|  |  | TR2 | 407 | 3.21 | 1.07 | 4 | 20 | 41 | 25 | 7 | 3 |

## TE <br> Texas Education Agency

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

Table G4.4 Rater Scores Summary: English II, Conventions

| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing Sample | TS1 | Teacher | 469 | 3.67 | 1.18 |  | 27 |  | 63 |  | 10 |
|  |  | ESC | 469 | 3.86 | 1.35 |  | 26 |  | 54 |  | 19 |
|  |  | TR1 | 469 | 3.57 | 1.29 |  | 34 |  | 54 |  | 12 |
|  |  | TR2 | 102 | 3.69 | 1.22 |  | 27 |  | 61 |  | 12 |
|  | PS1 | Teacher | 431 | 4.04 | 1.30 |  | 20 |  | 58 |  | 22 |
|  |  | ESC | 431 | 3.92 | 1.06 |  | 16 |  | 72 |  | 12 |
|  |  | TR1 | 431 | 4.00 | 1.16 |  | 17 |  | 66 |  | 17 |
|  |  | TR2 | 77 | 3.90 | 1.21 |  | 21 |  | 64 |  | 16 |
|  | PS2 | Teacher | 428 | 3.95 | 1.13 |  | 17 |  | 68 |  | 15 |
|  |  | ESC | 428 | 3.96 | 1.17 |  | 18 |  | 66 |  | 16 |
|  |  | TR1 | 428 | 3.83 | 1.05 |  | 18 |  | 72 |  | 10 |
|  |  | TR2 | 163 | 3.91 | 1.10 |  | 17 |  | 70 |  | 13 |
|  | TS2 | Teacher | 387 | 4.07 | 1.31 |  | 20 |  | 57 |  | 23 |
|  |  | ESC | 387 | 3.87 | 1.34 |  | 26 |  | 55 |  | 19 |
|  |  | TR1 | 387 | 3.31 | 1.27 |  | 43 |  | 48 |  | 9 |
|  |  | TR2 | 65 | 3.32 | 1.19 |  | 40 |  | 54 |  | 6 |
| Genre | Analytic | Teacher | 160 | 4.33 | 1.18 |  | 11 |  | 63 |  | 27 |
|  |  | ESC | 160 | 4.01 | 1.11 |  | 15 |  | 69 |  | 16 |
|  |  | TR1 | 160 | 4.34 | 1.13 |  | 9 |  | 66 |  | 26 |
|  |  | TR2 | 60 | 4.13 | 1.21 |  | 15 |  | 63 |  | 22 |
|  | Expository | Teacher | 183 | 4.34 | 1.54 |  | 22 |  | 38 |  | 39 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ESC | 183 | 4.00 | 1.22 |  | 19 |  | 63 |  | 19 |
|  |  | TR1 | 183 | 3.91 | 1.24 |  | 21 |  | 62 |  | 17 |
|  |  | TR2 | 60 | 3.83 | 1.18 |  | 22 |  | 65 |  | 13 |
|  | Other | Teacher | 161 | 3.83 | 1.10 |  | 20 |  | 69 |  | 11 |
|  |  | ESC | 161 | 4.01 | . 88 |  | 9 |  | 81 |  | 10 |
|  |  | TR1 | 161 | 3.93 | 1.12 |  | 17 |  | 69 | 14 |  |
|  |  | TR2 | 0 |  |  |  |  |  |  |  |  |
|  | Personal Narrative | Teacher | 98 | 3.71 | 1.07 |  | 22 |  | 69 |  | 8 |
|  |  | ESC | 98 | 4.06 | 1.16 |  | 15 |  | 66 |  | 18 |
|  |  | TR1 | 98 | 4.00 | . 95 |  | 11 |  | 78 |  | 11 |
|  |  | TR2 | 60 | 4.00 | 1.10 |  | 15 |  | 70 |  | 15 |
|  | Persuasive | Teacher | 257 | 3.76 | . 98 |  | 19 |  | 75 |  | 7 |
|  |  | ESC | 257 | 3.76 | 1.14 |  | 23 |  | 66 |  | 11 |
|  |  | TR1 | 257 | 3.63 | . 96 |  | 23 |  | 74 |  | 4 |
|  |  | TR2 | 60 | 3.67 | . 99 |  | 22 |  | 73 |  | 5 |
|  | Persuasive_TS | Teacher | 856 | 3.85 | 1.26 |  | 24 |  | 60 |  | 16 |
|  |  | ESC | 856 | 3.86 | 1.34 |  | 26 |  | 55 |  | 19 |
|  |  | TR1 | 856 | 3.45 | 1.28 |  | 38 |  | 51 |  | 11 |
|  |  | TR2 | 167 | 3.54 | 1.22 |  | 32 |  | 58 |  | 10 |
| Timed Sample Prompt | 1000035 | Teacher | 284 | 3.75 | 1.30 |  | 28 |  | 56 |  | 15 |
|  |  | ESC | 284 | 3.76 | 1.32 |  | 29 |  | 55 |  | 17 |
|  |  | TR1 | 284 | 3.32 | 1.26 |  | 42 |  | 49 |  | 8 |
|  |  | TR2 | 62 | 3.29 | 1.09 |  | 39 |  | 58 |  | 3 |
|  | 1000036 | Teacher | 308 | 3.86 | 1.18 |  | 21 |  | 65 |  | 14 |


| Group | Sample ${ }^{\text {a }}$ | Rater | N | Mean | StdDev | S1 (\%) | S2 (\%) | S3 (\%) | S4 (\%) | S5 (\%) | S6 (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ESC | 308 | 3.86 | 1.29 |  | 24 |  | 58 |  | 18 |
|  |  | TR1 | 308 | 3.44 | 1.26 |  | 38 |  | 52 |  | 10 |
|  |  | TR2 | 59 | 3.76 | 1.24 |  | 25 |  | 61 |  | 14 |
|  |  | Teacher | 264 | 3.95 | 1.29 |  | 22 |  | 58 |  | 20 |
|  | 100 | ESC | 264 | 3.97 | 1.42 |  | 26 |  | 50 |  | 24 |
|  |  | TR1 | 264 | 3.60 | 1.33 |  | 34 |  | 52 |  | 14 |
|  |  | TR2 | 46 | 3.61 | 1.31 |  | 33 |  | 54 |  | 13 |
| Total | Total | Teacher | 1715 | 3.92 | 1.24 |  | 21 |  | 62 |  | 17 |
|  |  | ESC | 1715 | 3.90 | 1.23 |  | 22 |  | 62 |  | 17 |
|  |  | TR1 | 1715 | 3.68 | 1.22 |  | 28 |  | 60 |  | 12 |
|  |  | TR2 | 407 | 3.76 | 1.18 |  | 24 |  | 64 |  | 12 |

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; the numbers are the prompt IDs of timed samples.

## APPENDIX H: SCORE CORRELATIONS BETWEEN RATERS

Figures $\mathrm{H} 1.1-\mathrm{H} 1.4$ compare the percentages of exact agreement (EA), percentages of exact or adjacent agreement (EAA), polychoric correlations (Cor), and quadratic weighted kappa coefficients (WKC), respectively, among the four raters on the four rating scores based on the total writing samples in grade 4. Figures $\mathrm{H} 2.1-\mathrm{H} 2.4$ are the same plots for grade 7 writing, Figures H3.1-H3.4 for English I, and Figures $\mathrm{H} 4.1-\mathrm{H} 4.4$ for English II. Across all rating scores, rater pairs, and the four tests, the range of exact agreement based on all writing samples was between $28 \%$ and $45 \%$ (except for Conventions score), the range of adjacent agreement was between $72 \%$ and $87 \%$ (except for Conventions score), the range of polychoric correlations was between 0.38 and 0.67 , and the range of kappa coefficients was between 0.32 and 0.63 . For Conventions score based on all writing samples, the range of exact agreement was between $54 \%$ and $65 \%$ and the range of adjacent agreement was between $96 \%$ and $99 \%$, which were higher than those of the other scores because it has three score categories while the other scores have six score categories.

Figure H1.1. Percentage of Exact Agreement between Raters on Total Samples: Grade 4 Writing.


Figure H1.2. Percentage of Adjacent Agreement between Raters on Total Samples: Grade 4 Writing.

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Figure H1.3. Score Correlation between Raters on Total Samples: Grade 4 Writing.


Figure H1.4. Weighted Kappa Coefficient between Raters on Total Samples: Grade 4 Writing.

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Figure H2.1. Percentage of Exact Agreement between Raters on Total Samples: Grade 7 Writing.


Figure H2.2. Percentage of Adjacent Agreement between Raters on Total Samples: Grade 7 Writing.


Figure H2.3. Score Correlation between Raters on Total Samples: Grade 7 Writing.


Figure H2.4. Weighted Kappa Coefficient between Raters on Total Samples: Grade 7 Writing.


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Figure H3.1. Percentage of Exact Agreement between Raters on Total Samples: English I.


Figure H3.2. Percentage of Adjacent Agreement between Raters on Total Samples: English I.


Figure H3.3. Score Correlation between Raters on Total Samples: English I.


Figure H3.4. Weighted Kappa Coefficient between Raters on Total Samples: English I.


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Figure H4.1. Percentage of Exact Agreement between Raters on Total Samples: English II.


Figure H4.2. Percentage of Adjacent Agreement between Raters on Total Samples: English II.


Figure H4.3. Score Correlation between Raters on Total Samples: English II.


Figure H4.4. Weighted Kappa Coefficient between Raters on Total Samples: English II.


## APPENDIX I: RATER SCORE CONSISTENCY SUMMARY

Tables I1-I4 report the sample sizes, percentages of exact agreement (EA), percentages of exact or adjacent agreement (EAA), polychoric correlations (Cor), and quadratic weighted kappa coefficients (WKC) for grades 4 and 7 writing, English I, and English II, respectively, between rating scores

- from ESC raters and from Teachers,
- from Trained Rater 1 and from Teachers,
- from Trained Rater 1 and from ESC raters,
- from Trained Rater 1 and from Trained Rater 2.

These statistics are calculated for each writing sample (TS1, PS1, PS2, and TS2), each writing genre, each timed writing prompt (represented by prompt ID), and the total writing samples with a sample size of at least 30 . These statistics are used to examine the extent to which the ratings assigned by teachers, ESC raters, and trained raters are consistent, as rating reliability indicators.

Polychoric correlation is suitable for the case where both variables are ordered categorical variables (Drasgow, 19883), like rating scores in this study. Polychoric correlation assumes there is a continuous variable underlying each categorical variable and the two continuous variables follow a binormal distribution. The polychoric correlation is the correlation between the two variables in the binormal distribution. Polychoric correlation is estimated by the maximum likelihood estimation. Compared to Pearson correlation, polychoric correlation more accurately reflects the true relationship between two ordered categorical variables if the assumptions hold, while Pearson correlation tends to underestimate the association.

The kappa with quadratic weights (Fleiss \& Cohen, $1973^{4}$ ) is a commonly used weighted kappa statistic for summarizing inter-rater agreement on an ordinal scale. The kappa coefficient (Cohen $1968^{5}$ ) is a chance-adjusted index of agreement, which assumes nominal categories. It is extended to non-nominal categories through weighting, which indicates that some categories are more similar than others, and, thus, mismatching pairs of categories deserve varying degrees of partial credit. Quadratic weight is one of the popular ways of determining how much partial credit to assign to each mismatched pair of categories, because the kappa with quadratic weights is equivalent to the intraclass reliability as demonstrated in Fleiss and Cohen, and, thus, it can be interpreted and evaluated as a reliability index.

Based on Tables I1-I4, these statistics had some variations across writing sample groups, rating scores, rater pairs and tests. The two trained raters' scores in general were a little more consistent than the scores from the other rater pairs. The score agreement between Teachers and Trained Rater 1 is closest to that between the two trained raters on English I among the four tests. For example, based on all writing samples the maximum difference on weighted kappa across the four scores between Teachers versus Trained Rater 1 and the two trained raters was 0.17 for grade 4 writing, 0.16 for grade 7 writing, 0.06 for English I, and 0.21 for English II.

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Table I1. Rater Score Consistency: Grade 4 Writing

| Score | Sample ${ }^{\text {a }}$ | $\mathrm{N}^{\text {b }}$ | Teacher vs. ESC' |  |  |  | Teacher vs. TR1 ${ }^{\text {c }}$ |  |  |  | ESC vs. TR1c |  |  |  | TR1 vs. TR2 ${ }^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | N | EA (\%) | EAA (\%) | COR | WK |
| Organization | TS1 | 603 | 30 | 77 | . 36 | . 33 | 31 | 80 | . 45 | . 41 | 34 | 81 | . 50 | . 45 | 124 | 37 | 85 | . 53 | . 49 |
|  | PS1 | 361 | 32 | 76 | . 28 | . 24 | 27 | 77 | . 23 | . 17 | 27 | 76 | . 37 | . 33 | 62 | 45 | 81 | . 24 | . 20 |
|  | PS2 | 602 | 30 | 77 | . 42 | . 38 | 30 | 76 | . 36 | . 30 | 31 | 80 | . 45 | . 40 | 200 | 45 | 84 | . 50 | . 45 |
|  | TS2 | 603 | 29 | 72 | . 38 | . 32 | 28 | 69 | . 38 | . 30 | 31 | 79 | . 40 | . 37 | 131 | 37 | 80 | . 50 | . 47 |
|  | Analytic | 93 | 26 | 70 | . 57 | . 43 | 43 | 81 | . 57 | . 47 | 22 | 70 | . 39 | . 33 | 60 | 45 | 77 | . 27 | . 25 |
|  | Expository | 526 | 31 | 77 | . 35 | . 30 | 30 | 76 | . 32 | . 24 | 30 | 78 | . 44 | . 39 | 83 | 49 | 88 | . 60 | . 54 |
|  | Personal Narrative | 79 | 34 | 75 | . 49 | . 44 | 22 | 70 | . 26 | . 21 | 27 | 73 | . 51 | . 43 | 59 | 37 | 75 | . 29 | . 24 |
|  | Persuasive | 264 | 31 | 80 | . 45 | . 38 | 25 | 77 | . 41 | . 31 | 32 | 84 | . 37 | . 34 | 60 | 45 | 92 | . 65 | . 57 |
|  | Personal Narrative_TS | 1206 | 30 | 74 | . 38 | . 35 | 30 | 75 | . 45 | . 39 | 32 | 80 | . 46 | . 42 | 255 | 37 | 83 | . 52 | . 49 |
|  | 1000022 | 523 | 28 | 77 | . 41 | . 38 | 30 | 77 | . 44 | . 38 | 33 | 81 | . 48 | . 43 | 116 | 36 | 82 | . 42 | . 39 |
|  | 1000023 | 293 | 32 | 76 | . 42 | . 38 | 31 | 73 | . 45 | . 39 | 31 | 81 | . 48 | . 43 | 52 | 35 | 79 | . 41 | . 37 |
|  | 1000024 | 390 | 30 | 70 | . 33 | . 29 | 28 | 73 | . 45 | . 38 | 33 | 78 | . 43 | . 40 | 87 | 39 | 86 | . 67 | . 64 |
|  | Total | 2169 | 30 | 75 | . 38 | . 35 | 29 | 76 | . 40 | . 34 | 31 | 79 | . 45 | . 41 | 517 | 41 | 83 | . 50 | . 46 |
| Content | TS1 | 603 | 32 | 77 | . 39 | . 35 | 35 | 82 | . 52 | . 46 | 35 | 81 | . 52 | . 46 | 124 | 38 | 90 | . 55 | . 50 |
|  | PS1 | 361 | 27 | 72 | . 24 | . 21 | 31 | 73 | . 25 | . 18 | 29 | 76 | . 37 | . 32 | 62 | 50 | 84 | . 30 | . 25 |
|  | PS2 | 602 | 30 | 73 | . 38 | . 33 | 28 | 74 | . 33 | . 25 | 33 | 79 | . 43 | . 38 | 200 | 44 | 85 | . 59 | . 53 |
|  | TS2 | 603 | 25 | 68 | . 40 | . 31 | 30 | 73 | . 39 | . 32 | 30 | 79 | . 42 | . 38 | 131 | 40 | 82 | . 59 | . 55 |
|  | Analytic | 93 | 28 | 80 | . 55 | . 44 | 43 | 87 | . 63 | . 55 | 25 | 73 | . 41 | . 34 | 60 | 37 | 85 | . 52 | . 47 |
|  | Expository | 526 | 27 | 73 | . 33 | . 28 | 29 | 72 | . 34 | . 24 | 31 | 79 | . 44 | . 39 | 83 | 53 | 90 | . 65 | . 56 |
|  | Personal Narrative | 79 | 30 | 66 | . 46 | . 39 | 22 | 59 | . 20 | . 14 | 32 | 73 | . 50 | . 44 | 59 | 36 | 69 | . 40 | . 34 |
|  | Persuasive | 264 | 33 | 73 | . 35 | . 28 | 28 | 75 | . 29 | . 21 | 34 | 81 | . 31 | . 28 | 60 | 53 | 92 | . 68 | . 59 |
|  | Personal Narrative_TS | 1206 | 28 | 73 | . 40 | . 35 | 33 | 77 | . 49 | . 43 | 33 | 80 | . 47 | . 43 | 255 | 39 | 86 | . 58 | . 54 |
|  | 1000022 | 523 | 29 | 75 | . 38 | . 35 | 34 | 79 | . 49 | . 43 | 34 | 82 | . 48 | . 44 | 116 | 39 | 86 | . 48 | . 43 |


| Score | Sample ${ }^{\text {a }}$ | $\mathrm{N}^{\text {b }}$ | Teacher vs. ESC ${ }^{\text {c }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {c }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {c }}$ |  |  |  | TR1 vs. TR2 ${ }^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | N | EA (\%) | EAA (\%) | COR | WK |
|  | 1000023 | 293 | 29 | 71 | . 44 | . 38 | 33 | 77 | . 50 | . 44 | 36 | 79 | . 49 | . 44 | 52 | 29 | 85 | . 53 | . 47 |
|  | 1000024 | 390 | 27 | 70 | . 40 | . 34 | 30 | 76 | . 48 | . 41 | 29 | 79 | . 46 | . 43 | 87 | 45 | 86 | . 71 | . 67 |
|  | Total | 2169 | 29 | 73 | . 38 | . 33 | 31 | 76 | . 42 | . 35 | 32 | 79 | . 45 | . 41 | 517 | 42 | 85 | . 56 | . 52 |
| Language | TS1 | 603 | 34 | 79 | . 44 | . 40 | 35 | 82 | . 56 | . 48 | 38 | 82 | . 54 | . 49 | 124 | 42 | 90 | . 65 | . 59 |
|  | PS1 | 361 | 27 | 72 | . 31 | . 24 | 27 | 71 | . 29 | . 19 | 30 | 77 | . 39 | . 34 | 62 | 40 | 81 | . 26 | . 21 |
|  | PS2 | 602 | 27 | 73 | . 39 | . 34 | 28 | 73 | . 38 | . 27 | 30 | 81 | . 45 | . 38 | 200 | 37 | 87 | . 53 | . 46 |
|  | TS2 | 603 | 28 | 70 | . 42 | . 33 | 29 | 70 | . 43 | . 33 | 34 | 82 | . 47 | . 44 | 131 | 37 | 77 | . 45 | . 43 |
|  | Analytic | 93 | 26 | 76 | . 57 | . 48 | 40 | 83 | . 58 | . 50 | 23 | 72 | . 44 | . 37 | 60 | 33 | 78 | . 41 | . 35 |
|  | Expository | 526 | 27 | 72 | . 37 | . 27 | 26 | 71 | . 35 | . 22 | 32 | 81 | . 48 | . 42 | 83 | 43 | 90 | . 59 | . 50 |
|  | Personal Narrative | 79 | 23 | 71 | . 47 | . 43 | 33 | 71 | . 28 | . 22 | 23 | 73 | . 40 | . 30 | 59 | 37 | 78 | . 45 | . 39 |
|  | Persuasive | 264 | 28 | 72 | . 40 | . 32 | 25 | 71 | . 37 | . 23 | 30 | 80 | . 35 | . 29 | 60 | 35 | 92 | . 47 | . 38 |
|  | Personal Narrative_TS | 1206 | 31 | 74 | . 44 | . 39 | 32 | 76 | . 53 | . 44 | 36 | 82 | . 52 | . 48 | 255 | 39 | 83 | . 55 | . 52 |
|  | 1000022 | 523 | 34 | 78 | . 45 | . 41 | 33 | 77 | . 52 | . 44 | 36 | 82 | . 54 | . 49 | 116 | 42 | 89 | . 54 | . 48 |
|  | 1000023 | 293 | 34 | 75 | . 52 | . 44 | 28 | 76 | . 58 | . 48 | 35 | 80 | . 50 | . 45 | 52 | 25 | 81 | . 41 | . 36 |
|  | 1000024 | 390 | 25 | 69 | . 39 | . 32 | 32 | 75 | . 50 | . 41 | 37 | 82 | . 51 | . 48 | 87 | 44 | 77 | . 62 | . 60 |
|  | Total | 2169 | 29 | 73 | . 41 | . 36 | 30 | 75 | . 46 | . 36 | 33 | 81 | . 48 | . 44 | 517 | 38 | 84 | . 51 | . 47 |
| Conventions | TS1 | 603 | 59 | 98 | . 48 | . 37 | 59 | 99 | . 55 | . 41 | 58 | 98 | . 53 | . 41 | 124 | 60 | 98 | . 58 | . 44 |
|  | PS1 | 361 | 53 | 96 | . 38 | . 25 | 49 | 96 | . 21 | . 13 | 47 | 96 | . 30 | . 23 | 62 | 58 | 97 | . 22 | . 17 |
|  | PS2 | 602 | 54 | 97 | . 40 | . 30 | 52 | 97 | . 31 | . 23 | 54 | 96 | . 31 | . 24 | 200 | 52 | 99 | . 36 | . 26 |
|  | TS2 | 603 | 52 | 97 | . 41 | . 30 | 53 | 98 | . 50 | . 39 | 54 | 97 | . 46 | . 36 | 131 | 50 | 99 | . 46 | . 35 |
|  | Analytic | 93 | 57 | 98 | . 67 | . 43 | 56 | 98 | . 51 | . 34 | 58 | 96 | . 44 | . 35 | 60 | 57 | 98 | . 39 | . 29 |
|  | Expository | 526 | 54 | 96 | . 39 | . 27 | 51 | 97 | . 29 | . 20 | 47 | 96 | . 31 | . 24 | 83 | 55 | 100 | . 45 | . 31 |
|  | Personal Narrative | 79 | 44 | 96 | . 38 | . 30 | 41 | 94 | . 21 | . 16 | 57 | 96 | . 36 | . 28 | 59 | 47 | 95 | . 24 | . 17 |
|  | Persuasive | 264 | 55 | 98 | . 43 | . 28 | 54 | 97 | . 27 | . 18 | 57 | 96 | . 25 | . 19 | 60 | 52 | 98 | . 33 | . 25 |
|  | Personal Narrative_TS | 1206 | 56 | 97 | . 45 | . 35 | 56 | 98 | . 56 | . 43 | 56 | 97 | . 50 | . 40 | 255 | 55 | 99 | . 54 | . 42 |

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| Score | Sample ${ }^{\text {a }}$ | $\mathrm{N}^{\text {b }}$ | Teacher vs. ESC ${ }^{\text {c }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {c }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {c }}$ |  |  |  | TR1 vs. TR2 $^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | N | EA (\%) | EAA (\%) | COR | WK |
|  | 1000022 | 523 | 58 | 97 | . 46 | . 35 | 56 | 98 | . 53 | . 40 | 57 | 98 | . 53 | . 42 | 116 | 59 | 99 | . 53 | . 40 |
|  | 1000023 | 293 | 56 | 97 | . 48 | . 37 | 60 | 99 | . 65 | . 51 | 59 | 97 | . 48 | . 37 | 52 | 46 | 100 | . 47 | . 37 |
|  | 1000024 | 390 | 52 | 97 | . 42 | . 33 | 54 | 97 | . 53 | . 41 | 52 | 97 | . 48 | . 38 | 87 | 54 | 98 | . 57 | . 45 |
|  | Total | 2169 | 55 | 97 | . 43 | . 33 | 54 | 97 | . 46 | . 35 | 54 | 97 | . 43 | . 34 | 517 | 54 | 98 | . 46 | . 36 |

 such a suffix; The numbers are the prompt IDs of timed samples.
${ }^{\mathrm{b}} \mathrm{N}$ is the same for the comparisons among Teacher, ESC, and TR1 raters; N for the comparison between TR1 and TR2 raters is different.
${ }^{c} E A=$ Percentage of exact agreement, EAA=Percentage of exact or adjacent agreement, COR=Correlation, WK=Weighted Kappa with quadratic weights.

Table 12. Rater Score Consistency: Grade 7 Writing

| Score | Sample ${ }^{\text {a }}$ | $\mathrm{N}^{\text {b }}$ | Teacher vs. ESC ${ }^{\text {c }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {c }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {c }}$ |  |  |  | TR1 vs. TR2 ${ }^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | N | EA (\%) | EAA (\%) | COR | WK |
| Organization | TS1 | 890 | 34 | 79 | . 53 | . 49 | 34 | 78 | . 50 | . 45 | 31 | 77 | . 46 | . 43 | 185 | 38 | 84 | . 56 | . 51 |
|  | PS1 | 383 | 34 | 78 | . 59 | . 54 | 35 | 80 | . 55 | . 49 | 28 | 74 | . 52 | . 47 | 139 | 53 | 86 | . 79 | . 74 |
|  | PS2 | 237 | 27 | 70 | . 43 | . 40 | 35 | 77 | . 54 | . 49 | 30 | 74 | . 45 | . 41 | 99 | 41 | 86 | . 66 | . 62 |
|  | TS2 | 362 | 34 | 80 | . 58 | . 48 | 33 | 78 | . 49 | . 39 | 35 | 83 | . 58 | . 53 | 83 | 36 | 89 | . 66 | . 60 |
|  | Analytic | 126 | 36 | 79 | . 60 | . 53 | 37 | 79 | . 54 | . 47 | 25 | 71 | . 45 | . 43 | 59 | 49 | 86 | . 83 | . 76 |
|  | Expository | 60 | 28 | 70 | . 45 | . 41 | 33 | 73 | . 42 | . 35 | 27 | 73 | . 24 | . 18 | 60 | 55 | 87 | . 62 | . 51 |
|  | Personal Narrative | 316 | 31 | 74 | . 50 | . 45 | 34 | 79 | . 48 | . 43 | 29 | 72 | . 45 | . 40 | 60 | 53 | 85 | . 74 | . 70 |
|  | Persuasive | 117 | 31 | 76 | . 44 | . 40 | 36 | 81 | . 57 | . 53 | 32 | 81 | . 59 | . 52 | 59 | 34 | 86 | . 52 | . 48 |
|  | Expository_TS | 1252 | 34 | 79 | . 54 | . 48 | 34 | 78 | . 49 | . 44 | 32 | 78 | . 49 | . 45 | 268 | 37 | 85 | . 58 | . 54 |
|  | 1000029 | 619 | 34 | 81 | . 56 | . 51 | 38 | 82 | . 54 | . 49 | 34 | 79 | . 51 | . 47 | 118 | 35 | 83 | . 52 | . 48 |
|  | 1000030 | 180 | 37 | 79 | . 55 | . 49 | 28 | 81 | . 46 | . 41 | 26 | 76 | . 43 | . 39 | 33 | 45 | 100 | . 84 | . 77 |
|  | 1000031 | 453 | 32 | 76 | . 50 | . 45 | 31 | 71 | . 46 | . 39 | 33 | 79 | . 50 | . 46 | 117 | 38 | 84 | . 56 | . 52 |
|  | Total | 1872 | 33 | 78 | . 54 | . 49 | 34 | 78 | . 51 | . 46 | 31 | 77 | . 50 | . 46 | 506 | 42 | 86 | . 67 | . 63 |


| Score | Sample ${ }^{\text {a }}$ | $\mathrm{N}^{\text {b }}$ | Teacher vs. ESC ${ }^{\text {c }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {c }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {c }}$ |  |  |  | TR1 vs. TR2 ${ }^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | N | EA (\%) | EAA (\%) | COR | WK |
| Content | TS1 | 890 | 33 | 76 | . 52 | . 47 | 32 | 77 | . 50 | . 45 | 32 | 76 | . 45 | . 41 | 185 | 38 | 83 | . 59 | . 54 |
|  | PS1 | 383 | 31 | 80 | . 61 | . 56 | 32 | 81 | . 58 | . 53 | 28 | 77 | . 59 | . 53 | 139 | 53 | 82 | . 75 | . 70 |
|  | PS2 | 237 | 28 | 74 | . 48 | . 45 | 37 | 79 | . 59 | . 54 | 32 | 75 | . 52 | . 49 | 99 | 39 | 84 | . 69 | . 65 |
|  | TS2 | 362 | 28 | 76 | . 51 | . 42 | 37 | 80 | . 54 | . 47 | 35 | 79 | . 54 | . 48 | 83 | 41 | 86 | . 63 | . 57 |
|  | Analytic | 126 | 33 | 82 | . 59 | . 53 | 38 | 82 | . 60 | . 54 | 27 | 76 | . 52 | . 50 | 59 | 51 | 85 | . 82 | . 75 |
|  | Expository | 60 | 30 | 73 | . 47 | . 41 | 27 | 75 | . 54 | . 43 | 30 | 77 | . 31 | . 25 | 60 | 53 | 78 | . 40 | . 33 |
|  | Personal Narrative | 316 | 30 | 79 | . 56 | . 52 | 33 | 81 | . 53 | . 49 | 28 | 74 | . 52 | . 48 | 60 | 52 | 80 | . 70 | . 66 |
|  | Persuasive | 117 | 26 | 74 | . 46 | . 42 | 37 | 79 | . 58 | . 55 | 35 | 81 | . 61 | . 56 | 59 | 34 | 88 | . 64 | . 59 |
|  | Expository_TS | 1252 | 32 | 76 | . 51 | . 45 | 34 | 78 | . 51 | . 46 | 33 | 77 | . 47 | . 43 | 268 | 39 | 84 | . 60 | . 55 |
|  | 1000029 | 619 | 32 | 77 | . 52 | . 45 | 37 | 81 | . 54 | . 50 | 31 | 76 | . 44 | . 40 | 118 | 38 | 85 | . 57 | . 52 |
|  | 1000030 | 180 | 28 | 72 | . 49 | . 42 | 37 | 83 | . 58 | . 51 | 31 | 77 | . 45 | . 41 | 33 | 48 | 94 | . 83 | . 74 |
|  | 1000031 | 453 | 32 | 76 | . 53 | . 46 | 28 | 71 | . 47 | . 41 | 35 | 78 | . 52 | . 47 | 117 | 38 | 80 | . 55 | . 51 |
|  | Total | 1872 | 31 | 77 | . 53 | . 48 | 34 | 79 | . 54 | . 49 | 32 | 77 | . 51 | . 47 | 506 | 43 | 83 | . 66 | . 62 |
| Language | TS1 | 890 | 31 | 77 | . 53 | . 47 | 34 | 81 | . 54 | . 48 | 33 | 79 | . 48 | . 44 | 185 | 42 | 86 | . 59 | . 53 |
|  | PS1 | 383 | 35 | 82 | . 65 | . 59 | 33 | 80 | . 61 | . 52 | 28 | 75 | . 54 | . 50 | 139 | 52 | 80 | . 74 | . 68 |
|  | PS2 | 237 | 33 | 78 | . 54 | . 50 | 35 | 79 | . 60 | . 53 | 34 | 76 | . 56 | . 51 | 99 | 40 | 83 | . 67 | . 63 |
|  | TS2 | 362 | 29 | 73 | . 50 | . 39 | 35 | 77 | . 50 | . 41 | 40 | 85 | . 61 | . 56 | 83 | 47 | 90 | . 72 | . 65 |
|  | Analytic | 126 | 32 | 80 | . 58 | . 52 | 29 | 80 | . 58 | . 50 | 31 | 72 | . 53 | . 50 | 59 | 51 | 86 | . 85 | . 77 |
|  | Expository | 60 | 35 | 78 | . 51 | . 44 | 43 | 77 | . 60 | . 50 | 28 | 67 | . 18 | . 14 | 60 | 50 | 77 | . 40 | . 34 |
|  | Personal Narrative | 316 | 36 | 82 | . 62 | . 56 | 34 | 79 | . 55 | . 47 | 29 | 76 | . 50 | . 46 | 60 | 53 | 77 | . 63 | . 59 |
|  | Persuasive | 117 | 30 | 79 | . 55 | . 51 | 35 | 82 | . 59 | . 53 | 33 | 83 | . 64 | . 57 | 59 | 34 | 85 | . 60 | . 56 |
|  | Expository_TS | 1252 | 31 | 76 | . 52 | . 45 | 34 | 80 | . 53 | . 46 | 35 | 81 | . 51 | . 47 | 268 | 43 | 87 | . 62 | . 57 |
|  | 1000029 | 619 | 32 | 77 | . 52 | . 45 | 36 | 83 | . 55 | . 49 | 38 | 81 | . 52 | . 47 | 118 | 39 | 88 | . 60 | . 52 |
|  | 1000030 | 180 | 31 | 74 | . 49 | . 42 | 32 | 77 | . 54 | . 45 | 31 | 78 | . 48 | . 43 | 33 | 55 | 91 | . 83 | . 71 |
|  | 1000031 | 453 | 29 | 76 | . 53 | . 46 | 33 | 77 | . 51 | . 43 | 32 | 81 | . 53 | . 48 | 117 | 44 | 85 | . 60 | . 55 |

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| Score | Sample ${ }^{\text {a }}$ | $\mathrm{N}^{\text {b }}$ | Teacher vs. ESC ${ }^{\text {c }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {c }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {c }}$ |  |  |  | TR1 vs. TR2 ${ }^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | N | EA (\%) | EAA (\%) | COR | WK |
|  | Total | 1872 | 32 | 78 | . 55 | . 49 | 34 | 80 | . 55 | . 49 | 33 | 79 | . 53 | . 49 | 506 | 45 | 84 | . 67 | . 62 |
| Conventions | TS1 | 890 | 54 | 96 | . 46 | . 36 | 58 | 98 | . 51 | . 40 | 58 | 97 | . 49 | . 38 | 185 | 60 | 99 | . 52 | . 40 |
|  | PS1 | 383 | 58 | 98 | . 60 | . 49 | 53 | 99 | . 62 | . 48 | 52 | 97 | . 55 | . 44 | 139 | 72 | 99 | . 84 | . 72 |
|  | PS2 | 237 | 50 | 98 | . 53 | . 43 | 52 | 97 | . 50 | . 40 | 53 | 96 | . 44 | . 35 | 99 | 63 | 97 | . 61 | . 50 |
|  | TS2 | 362 | 54 | 91 | . 31 | . 21 | 52 | 95 | . 33 | . 25 | 52 | 97 | . 46 | . 34 | 83 | 60 | 96 | . 57 | . 46 |
|  | Analytic | 126 | 56 | 99 | . 62 | . 47 | 54 | 98 | . 51 | . 39 | 52 | 98 | . 53 | . 43 | 59 | 66 | 100 | . 82 | . 67 |
|  | Expository | 60 | 63 | 97 | . 52 | . 39 | 53 | 100 | . 59 | . 42 | 53 | 97 | . 28 | . 19 | 60 | 72 | 97 | . 59 | . 42 |
|  | Personal Narrative | 316 | 55 | 97 | . 53 | . 43 | 52 | 98 | . 54 | . 42 | 52 | 97 | . 49 | . 38 | 60 | 75 | 98 | . 80 | . 67 |
|  | Persuasive | 117 | 50 | 98 | . 55 | . 45 | 54 | 97 | . 49 | . 38 | 53 | 97 | . 46 | . 36 | 59 | 59 | 98 | . 56 | . 44 |
|  | Expository_TS | 1252 | 54 | 94 | . 41 | . 31 | 56 | 97 | . 46 | . 36 | 56 | 97 | . 47 | . 37 | 268 | 60 | 98 | . 53 | . 42 |
|  | 1000029 | 619 | 57 | 94 | . 44 | . 33 | 55 | 97 | . 44 | . 34 | 56 | 97 | . 49 | . 37 | 118 | 57 | 96 | . 39 | . 31 |
|  | 1000030 | 180 | 49 | 94 | . 30 | . 23 | 54 | 97 | . 41 | . 31 | 50 | 97 | . 34 | . 26 | 33 | 61 | 100 | . 54 | . 37 |
|  | 1000031 | 453 | 53 | 96 | . 42 | . 32 | 59 | 97 | . 51 | . 41 | 59 | 98 | . 51 | . 40 | 117 | 63 | 100 | . 68 | . 53 |
|  | Total | 1872 | 55 | 96 | . 47 | . 37 | 55 | 97 | . 50 | . 39 | 55 | 97 | . 48 | . 38 | 506 | 64 | 98 | . 66 | . 53 |

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not
have such a suffix; The numbers are the prompt IDs of timed samples.
${ }^{\mathrm{b}} \mathrm{N}$ is the same for the comparisons among Teacher, ESC, and TR1 raters; N for the comparison between TR1 and TR2 raters is different.
${ }^{c} E A=$ Percentage of exact agreement, EAA=Percentage of exact or adjacent agreement, COR=Correlation, WK=Weighted Kappa with quadratic weights.

Table I3. Rater Score Consistency: English I

|  | Sample ${ }^{\text {a }}$ | $\mathrm{N}^{\text {b }}$ | Teacher vs. ESC ${ }^{\text {c }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {c }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {c }}$ |  |  |  | TR1 vs. TR2 ${ }^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | N | EA (\%) | EAA (\%) | COR | WK |
| Organization | TS1 | 681 | 35 | 82 | . 51 | . 45 | 37 | 82 | . 52 | . 46 | 33 | 77 | . 45 | . 41 | 147 | 36 | 82 | . 56 | . 51 |
|  | PS1 | 289 | 34 | 83 | . 59 | . 52 | 35 | 84 | . 57 | . 54 | 35 | 79 | . 58 | . 52 | 73 | 38 | 81 | . 63 | . 57 |
|  | PS2 | 597 | 37 | 80 | . 47 | . 42 | 36 | 85 | . 49 | . 44 | 31 | 78 | . 49 | . 42 | 165 | 38 | 86 | . 52 | . 46 |
|  | TS2 | 681 | 35 | 83 | . 52 | . 46 | 34 | 81 | . 49 | . 42 | 35 | 82 | . 44 | . 40 | 148 | 39 | 88 | . 45 | . 40 |


| Score | Sample ${ }^{\text {a }}$ | $\mathrm{N}^{\text {b }}$ | Teacher vs. ESC ${ }^{\text {c }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {c }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {c }}$ |  |  |  | TR1 vs. TR2 ${ }^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | N | EA (\%) | EAA (\%) | COR | WK |
|  | Analytic | 115 | 32 | 71 | . 31 | . 25 | 32 | 76 | . 32 | . 25 | 31 | 76 | . 39 | . 30 | 59 | 36 | 83 | . 55 | . 46 |
|  | Expository | 306 | 34 | 85 | . 58 | . 53 | 36 | 86 | . 58 | . 55 | 36 | 78 | . 57 | . 51 | 60 | 40 | 80 | . 59 | . 54 |
|  | Other | 59 | 29 | 73 | . 45 | . 39 | 32 | 88 | . 53 | . 47 | 31 | 81 | . 48 | . 41 | 0 |  |  |  |  |
|  | Personal Narrative | 320 | 41 | 85 | . 46 | . 42 | 36 | 87 | . 49 | . 44 | 33 | 80 | . 46 | . 41 | 60 | 33 | 85 | . 45 | . 41 |
|  | Persuasive | 86 | 36 | 76 | . 35 | . 27 | 38 | 79 | . 30 | . 26 | 20 | 77 | . 37 | . 31 | 59 | 44 | 90 | . 57 | . 54 |
|  | Expository_TS | 1362 | 35 | 82 | . 49 | . 46 | 36 | 81 | . 48 | . 44 | 34 | 80 | . 44 | . 41 | 295 | 37 | 85 | . 51 | . 47 |
|  | 1000032 | 399 | 31 | 82 | . 48 | . 44 | 32 | 79 | . 41 | . 38 | 32 | 76 | . 39 | . 35 | 81 | 35 | 75 | . 37 | . 35 |
|  | 1000033 | 415 | 39 | 85 | . 57 | . 53 | 40 | 85 | . 58 | . 53 | 35 | 79 | . 48 | . 44 | 93 | 40 | 91 | . 67 | . 62 |
|  | 21000001 | 548 | 34 | 81 | . 45 | . 42 | 35 | 80 | . 47 | . 42 | 35 | 83 | . 45 | . 41 | 121 | 37 | 86 | . 47 | . 42 |
|  | Total | 2248 | 35 | 82 | . 51 | . 47 | 36 | 82 | . 50 | . 46 | 33 | 79 | . 48 | . 44 | 533 | 38 | 85 | . 53 | . 49 |
| Content | TS1 | 681 | 39 | 84 | . 53 | . 48 | 39 | 83 | . 53 | . 49 | 35 | 81 | . 49 | . 45 | 147 | 40 | 84 | . 63 | . 58 |
|  | PS1 | 289 | 35 | 81 | . 62 | . 56 | 36 | 86 | . 58 | . 55 | 33 | 80 | . 58 | . 53 | 73 | 40 | 86 | . 65 | . 59 |
|  | PS2 | 597 | 34 | 80 | . 45 | . 41 | 31 | 81 | . 42 | . 37 | 33 | 79 | . 50 | . 45 | 165 | 39 | 88 | . 53 | . 47 |
|  | TS2 | 681 | 30 | 81 | . 51 | . 44 | 33 | 81 | . 45 | . 39 | 34 | 81 | . 42 | . 38 | 148 | 35 | 84 | . 38 | . 33 |
|  | Analytic | 115 | 23 | 65 | . 13 | . 10 | 30 | 69 | . 21 | . 13 | 31 | 76 | . 47 | . 39 | 59 | 41 | 86 | . 59 | . 48 |
|  | Expository | 306 | 38 | 85 | . 64 | . 60 | 36 | 88 | . 59 | . 56 | 33 | 82 | . 55 | . 51 | 60 | 45 | 88 | . 61 | . 59 |
|  | Other | 59 | 36 | 86 | . 68 | . 57 | 37 | 90 | . 53 | . 45 | 36 | 80 | . 57 | . 49 | 0 |  |  |  |  |
|  | Personal Narrative | 320 | 34 | 79 | . 41 | . 38 | 29 | 80 | . 40 | . 35 | 34 | 80 | . 47 | . 42 | 60 | 37 | 85 | . 48 | . 41 |
|  | Persuasive | 86 | 35 | 81 | . 42 | . 35 | 35 | 84 | . 36 | . 29 | 23 | 74 | . 38 | . 33 | 59 | 36 | 90 | . 57 | . 51 |
|  | Expository_TS | 1362 | 35 | 83 | . 51 | . 47 | 36 | 82 | . 48 | . 43 | 34 | 81 | . 46 | . 42 | 295 | 38 | 84 | . 53 | . 48 |
|  | 1000032 | 399 | 33 | 81 | . 45 | . 41 | 35 | 82 | . 41 | . 37 | 33 | 79 | . 40 | . 37 | 81 | 36 | 74 | . 32 | . 30 |
|  | 1000033 | 415 | 40 | 87 | . 63 | . 58 | 41 | 84 | . 57 | . 53 | 34 | 80 | . 49 | . 45 | 93 | 43 | 90 | . 74 | . 67 |
|  | 21000001 | 548 | 31 | 80 | . 47 | . 43 | 33 | 81 | . 47 | . 41 | 36 | 82 | . 47 | . 43 | 121 | 35 | 86 | . 46 | . 42 |
|  | Total | 2248 | 34 | 82 | . 53 | . 49 | 35 | 82 | . 49 | . 45 | 34 | 80 | . 50 | . 46 | 533 | 38 | 86 | . 55 | . 50 |
| Language | TS1 | 681 | 38 | 86 | . 53 | . 48 | 37 | 84 | . 53 | . 47 | 35 | 82 | . 50 | . 46 | 147 | 37 | 85 | . 63 | . 56 |


| Score | Sample ${ }^{\text {a }}$ | $\mathrm{N}^{\text {b }}$ | Teacher vs. ESC ${ }^{\text {c }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {c }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {c }}$ |  |  |  | TR1 vs. TR2 ${ }^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | N | EA (\%) | EAA (\%) | COR | WK |
|  | PS1 | 289 | 39 | 84 | . 58 | . 54 | 35 | 84 | . 57 | . 54 | 37 | 82 | . 59 | . 54 | 73 | 36 | 86 | . 64 | . 59 |
|  | PS2 | 597 | 39 | 80 | . 46 | . 42 | 35 | 83 | . 48 | . 43 | 36 | 82 | . 53 | . 48 | 165 | 39 | 87 | . 51 | . 45 |
|  | TS2 | 681 | 37 | 86 | . 54 | . 49 | 32 | 83 | . 52 | . 45 | 35 | 84 | . 47 | . 43 | 148 | 39 | 87 | . 40 | . 36 |
|  | Analytic | 115 | 27 | 73 | . 25 | . 21 | 30 | 71 | . 26 | . 20 | 37 | 75 | . 40 | . 35 | 59 | 42 | 83 | . 62 | . 53 |
|  | Expository | 306 | 40 | 87 | . 59 | . 56 | 37 | 86 | . 60 | . 55 | 37 | 84 | . 57 | . 52 | 60 | 37 | 90 | . 65 | . 59 |
|  | Other | 59 | 31 | 81 | . 53 | . 48 | 36 | 86 | . 54 | . 47 | 29 | 78 | . 41 | . 37 | 0 |  |  |  |  |
|  | Personal Narrative | 320 | 43 | 81 | . 45 | . 42 | 36 | 84 | . 45 | . 41 | 40 | 85 | . 57 | . 52 | 60 | 38 | 87 | . 50 | . 45 |
|  | Persuasive | 86 | 37 | 78 | . 36 | . 32 | 34 | 80 | . 39 | . 31 | 23 | 78 | . 39 | . 33 | 59 | 36 | 86 | . 48 | . 40 |
|  | Expository_TS | 1362 | 37 | 86 | . 54 | . 49 | 34 | 84 | . 50 | . 46 | 35 | 83 | . 49 | . 44 | 295 | 38 | 86 | . 53 | . 47 |
|  | 1000032 | 399 | 31 | 86 | . 50 | . 46 | 33 | 80 | . 44 | . 40 | 33 | 79 | . 43 | . 39 | 81 | 36 | 78 | . 38 | . 34 |
|  | 1000033 | 415 | 39 | 88 | . 59 | . 54 | 36 | 88 | . 57 | . 52 | 35 | 84 | . 52 | . 48 | 93 | 44 | 91 | . 73 | . 66 |
|  | 21000001 | 548 | 40 | 85 | . 52 | . 48 | 34 | 84 | . 51 | . 45 | 36 | 86 | . 51 | . 46 | 121 | 34 | 88 | . 45 | . 39 |
|  | Total | 2248 | 38 | 84 | . 54 | . 50 | 35 | 83 | . 52 | . 47 | 35 | 83 | . 52 | . 48 | 533 | 38 | 86 | . 55 | . 50 |
| Conventions | TS1 | 681 | 55 | 98 | . 50 | . 38 | 56 | 97 | . 49 | . 38 | 55 | 97 | . 42 | . 33 | 147 | 58 | 100 | . 56 | . 42 |
|  | PS1 | 289 | 54 | 98 | . 55 | . 44 | 53 | 98 | . 50 | . 40 | 59 | 97 | . 58 | . 46 | 73 | 62 | 99 | . 64 | . 52 |
|  | PS2 | 597 | 56 | 97 | . 38 | . 29 | 59 | 98 | . 43 | . 32 | 57 | 98 | . 46 | . 36 | 165 | 66 | 99 | . 56 | . 41 |
|  | TS2 | 681 | 59 | 99 | . 49 | . 34 | 54 | 97 | . 44 | . 32 | 64 | 99 | . 49 | . 34 | 148 | 57 | 98 | . 26 | . 19 |
|  | Analytic | 115 | 46 | 95 | . 29 | . 22 | 48 | 98 | . 25 | . 19 | 58 | 97 | . 53 | . 41 | 59 | 75 | 98 | . 73 | . 61 |
|  | Expository | 306 | 55 | 98 | . 57 | . 47 | 53 | 97 | . 48 | . 36 | 60 | 97 | . 57 | . 45 | 60 | 63 | 100 | . 65 | . 47 |
|  | Other | 59 | 51 | 97 | . 35 | . 24 | 66 | 100 | . 65 | . 46 | 49 | 95 | . 11 | . 07 | 0 |  |  |  |  |
|  | Personal Narrative | 320 | 63 | 99 | . 42 | . 30 | 63 | 99 | . 45 | . 32 | 60 | 99 | . 49 | . 37 | 60 | 55 | 100 | . 39 | . 27 |
|  | Persuasive | 86 | 49 | 92 | . 22 | . 15 | 53 | 98 | . 30 | . 21 | 48 | 98 | . 37 | . 28 | 59 | 66 | 98 | . 48 | . 36 |
|  | Expository_TS | 1362 | 57 | 98 | . 49 | . 37 | 55 | 97 | . 45 | . 35 | 60 | 98 | . 44 | . 33 | 295 | 57 | 99 | . 43 | . 32 |
|  | 1000032 | 399 | 51 | 98 | . 41 | . 30 | 53 | 97 | . 42 | . 33 | 58 | 98 | . 42 | . 32 | 81 | 59 | 100 | . 48 | . 33 |
|  | 1000033 | 415 | 59 | 98 | . 56 | . 44 | 58 | 97 | . 50 | . 40 | 59 | 97 | . 44 | . 34 | 93 | 61 | 100 | . 60 | . 44 |


| Score | Sample ${ }^{\text {a }}$ | $\mathrm{N}^{\text {b }}$ | Teacher vs. ESC ${ }^{\text {c }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {c }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {c }}$ |  |  |  | TR1 vs. TR2 ${ }^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | N | EA (\%) | EAA (\%) | COR | WK |
|  | 21000001 | 548 | 60 | 98 | . 48 | . 36 | 55 | 98 | . 42 | . 32 | 61 | 99 | . 46 | . 34 | 121 | 53 | 98 | . 27 | . 20 |
|  | Total | 2248 | 57 | 98 | . 47 | . 37 | 56 | 98 | . 45 | . 35 | 59 | 98 | . 47 | . 36 | 533 | 61 | 99 | . 50 | . 38 |

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not
have such a suffix; The numbers are the prompt IDs of timed samples.
${ }^{\mathrm{b}} \mathrm{N}$ is the same for the comparisons among Teacher, ESC, and TR1 raters; N for the comparison between TR1 and TR2 raters is different.
${ }^{c} E A=$ Percentage of exact agreement, EAA=Percentage of exact or adjacent agreement, COR=Correlation, WK=Weighted Kappa with quadratic weights.

Table I4. Rater Score Consistency: English II

| Score | Sample ${ }^{\text {a }}$ | $\mathrm{N}^{\text {b }}$ | Teacher vs. ESC ${ }^{\text {c }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {c }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {c }}$ |  |  |  | TR1 vs. TR2 $^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | N | EA (\%) | EAA (\%) | COR | WK |
| Organization | TS1 | 469 | 27 | 72 | . 32 | . 29 | 33 | 78 | . 38 | . 34 | 30 | 76 | . 42 | . 37 | 102 | 40 | 79 | . 44 | . 40 |
|  | PS1 | 431 | 28 | 73 | . 37 | . 29 | 31 | 74 | . 38 | . 31 | 36 | 79 | . 41 | . 37 | 77 | 43 | 91 | . 67 | . 61 |
|  | PS2 | 428 | 31 | 78 | . 43 | . 37 | 29 | 76 | . 32 | . 26 | 31 | 75 | . 30 | . 27 | 163 | 45 | 88 | . 48 | . 43 |
|  | TS2 | 387 | 34 | 78 | . 51 | . 42 | 24 | 64 | . 49 | . 34 | 33 | 78 | . 45 | . 38 | 65 | 32 | 83 | . 55 | . 49 |
|  | Analytic | 160 | 34 | 74 | . 32 | . 26 | 38 | 81 | . 34 | . 30 | 34 | 75 | . 39 | . 32 | 60 | 38 | 88 | . 57 | . 51 |
|  | Expository | 183 | 28 | 73 | . 45 | . 36 | 32 | 73 | . 50 | . 39 | 33 | 78 | . 51 | . 45 | 60 | 43 | 88 | . 62 | . 57 |
|  | Other | 161 | 20 | 64 | . 28 | . 19 | 26 | 63 | . 31 | . 23 | 29 | 76 | . 31 | . 27 | 0 |  |  |  |  |
|  | Personal Narrative | 98 | 31 | 80 | . 53 | . 48 | 28 | 70 | . 15 | . 15 | 30 | 73 | . 26 | . 22 | 60 | 48 | 87 | . 28 | . 25 |
|  | Persuasive | 257 | 33 | 84 | . 45 | . 36 | 26 | 81 | . 40 | . 28 | 37 | 78 | . 25 | . 22 | 60 | 48 | 93 | . 52 | . 43 |
|  | Persuasive_TS | 856 | 30 | 74 | . 37 | . 34 | 29 | 72 | . 38 | . 32 | 32 | 77 | . 43 | . 38 | 167 | 37 | 81 | . 49 | . 45 |
|  | 1000035 | 284 | 30 | 76 | . 44 | . 40 | 31 | 71 | . 39 | . 32 | 35 | 80 | . 48 | . 43 | 62 | 37 | 81 | . 36 | . 31 |
|  | 1000036 | 308 | 27 | 70 | . 28 | . 25 | 28 | 73 | . 37 | . 30 | 30 | 76 | . 41 | . 36 | 59 | 41 | 81 | . 60 | . 55 |
|  | 1000037 | 264 | 34 | 77 | . 39 | . 35 | 28 | 72 | . 38 | . 33 | 30 | 74 | . 39 | . 33 | 46 | 33 | 80 | . 53 | . 47 |
|  | Total | 1715 | 30 | 75 | . 37 | . 33 | 29 | 73 | . 38 | . 32 | 32 | 77 | . 39 | . 35 | 407 | 42 | 86 | . 52 | . 48 |
| Content | TS1 | 469 | 26 | 69 | . 30 | . 27 | 28 | 74 | . 33 | . 29 | 31 | 78 | . 48 | . 45 | 102 | 41 | 81 | . 54 | . 48 |


| Score | Sample ${ }^{\text {a }}$ | $\mathrm{N}^{\text {b }}$ | Teacher vs. ESC ${ }^{\text {c }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {c }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {c }}$ |  |  |  | TR1 vs. TR2 ${ }^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | N | EA (\%) | EAA (\%) | COR | WK |
|  | PS1 | 431 | 29 | 71 | . 32 | . 26 | 32 | 73 | . 39 | . 33 | 38 | 78 | . 47 | . 43 | 77 | 49 | 88 | . 64 | . 57 |
|  | PS2 | 428 | 32 | 80 | . 44 | . 36 | 29 | 73 | . 27 | . 21 | 39 | 84 | . 47 | . 41 | 163 | 47 | 91 | . 57 | . 51 |
|  | TS2 | 387 | 24 | 69 | . 53 | . 37 | 22 | 66 | . 51 | . 36 | 36 | 83 | . 56 | . 52 | 65 | 34 | 83 | . 55 | . 49 |
|  | Analytic | 160 | 41 | 91 | . 58 | . 52 | 35 | 86 | . 39 | . 34 | 36 | 84 | . 45 | . 39 | 60 | 42 | 93 | . 65 | . 56 |
|  | Expository | 183 | 28 | 70 | . 36 | . 31 | 29 | 74 | . 49 | . 41 | 36 | 80 | . 58 | . 53 | 60 | 55 | 88 | . 69 | . 62 |
|  | Other | 161 | 20 | 58 | . 18 | . 12 | 27 | 61 | . 32 | . 23 | 34 | 74 | . 35 | . 32 | 0 |  |  |  |  |
|  | Personal Narrative | 98 | 40 | 82 | . 55 | . 51 | 27 | 77 | . 20 | . 16 | 37 | 76 | . 27 | . 23 | 60 | 43 | 87 | . 40 | . 36 |
|  | Persuasive | 257 | 28 | 77 | . 45 | . 32 | 31 | 70 | . 34 | . 20 | 46 | 86 | . 42 | . 35 | 60 | 52 | 93 | . 43 | . 33 |
|  | Persuasive_TS | 856 | 25 | 69 | . 38 | . 31 | 25 | 71 | . 38 | . 32 | 33 | 80 | . 52 | . 48 | 167 | 38 | 82 | . 54 | . 49 |
|  | 1000035 | 284 | 26 | 70 | . 43 | . 35 | 27 | 72 | . 40 | . 33 | 34 | 82 | . 52 | . 48 | 62 | 35 | 87 | . 48 | . 40 |
|  | 1000036 | 308 | 23 | 68 | . 27 | . 22 | 25 | 72 | . 39 | . 31 | 35 | 81 | . 52 | . 48 | 59 | 44 | 81 | . 62 | . 56 |
|  | 1000037 | 264 | 27 | 70 | . 42 | . 35 | 23 | 67 | . 36 | . 31 | 30 | 78 | . 51 | . 48 | 46 | 35 | 76 | . 55 | . 50 |
|  | Total | 1715 | 28 | 72 | . 38 | . 32 | 28 | 72 | . 38 | . 31 | 36 | 81 | . 50 | . 46 | 407 | 44 | 87 | . 57 | . 52 |
| Language | TS1 | 469 | 27 | 74 | . 36 | . 33 | 34 | 75 | . 38 | . 34 | 33 | 79 | . 49 | . 45 | 102 | 39 | 80 | . 43 | . 39 |
|  | PS1 | 431 | 29 | 74 | . 37 | . 29 | 33 | 75 | . 42 | . 34 | 37 | 85 | . 44 | . 40 | 77 | 55 | 91 | . 64 | . 58 |
|  | PS2 | 428 | 35 | 83 | . 53 | . 44 | 33 | 81 | . 42 | . 33 | 38 | 82 | . 44 | . 39 | 163 | 40 | 90 | . 57 | . 50 |
|  | TS2 | 387 | 29 | 72 | . 57 | . 41 | 22 | 61 | . 51 | . 33 | 31 | 85 | . 54 | . 49 | 65 | 38 | 86 | . 51 | . 46 |
|  | Analytic | 160 | 43 | 91 | . 69 | . 59 | 37 | 91 | . 51 | . 46 | 39 | 81 | . 46 | . 39 | 60 | 38 | 92 | . 67 | . 57 |
|  | Expository | 183 | 27 | 69 | . 46 | . 32 | 29 | 73 | . 57 | . 42 | 40 | 85 | . 57 | . 50 | 60 | 58 | 88 | . 63 | . 57 |
|  | Other | 161 | 20 | 65 | . 24 | . 17 | 30 | 66 | . 34 | . 26 | 27 | 82 | . 29 | . 27 | 0 |  |  |  |  |
|  | Personal Narrative | 98 | 29 | 82 | . 49 | . 44 | 33 | 77 | . 23 | . 21 | 39 | 84 | . 41 | . 36 | 60 | 30 | 88 | . 43 | . 40 |
|  | Persuasive | 257 | 37 | 83 | . 47 | . 37 | 36 | 81 | . 41 | . 27 | 42 | 84 | . 38 | . 32 | 60 | 52 | 92 | . 46 | . 39 |
|  | Persuasive_TS | 856 | 28 | 73 | . 43 | . 36 | 29 | 69 | . 40 | . 32 | 32 | 82 | . 51 | . 47 | 167 | 39 | 83 | . 48 | . 44 |
|  | 1000035 | 284 | 29 | 74 | . 49 | . 40 | 31 | 70 | . 44 | . 35 | 30 | 81 | . 52 | . 48 | 62 | 35 | 85 | . 34 | . 28 |
|  | 1000036 | 308 | 25 | 71 | . 34 | . 29 | 31 | 71 | . 41 | . 32 | 34 | 82 | . 50 | . 45 | 59 | 49 | 85 | . 68 | . 62 |

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| Score | Sample ${ }^{\text {a }}$ | $\mathrm{N}^{\text {b }}$ | Teacher vs. ESC ${ }^{\text {c }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {c }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {c }}$ |  |  |  | TR1 vs. TR2 ${ }^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | N | EA (\%) | EAA (\%) | COR | WK |
|  | 1000037 | 264 | 30 | 74 | . 45 | . 37 | 23 | 66 | . 35 | . 28 | 31 | 81 | . 52 | . 48 | 46 | 30 | 76 | . 38 | . 33 |
|  | Total | 1715 | 30 | 76 | . 43 | . 36 | 31 | 73 | . 42 | . 34 | 35 | 83 | . 49 | . 45 | 407 | 42 | 87 | . 55 | . 50 |
| Conventions | TS1 | 469 | 55 | 97 | . 44 | . 34 | 54 | 97 | . 39 | . 30 | 58 | 96 | . 52 | . 40 | 102 | 64 | 99 | . 58 | . 44 |
|  | PS1 | 431 | 55 | 98 | . 37 | . 27 | 58 | 98 | . 49 | . 38 | 61 | 98 | . 35 | . 26 | 77 | 74 | 99 | . 73 | . 60 |
|  | PS2 | 428 | 63 | 98 | . 44 | . 34 | 65 | 99 | . 51 | . 37 | 61 | 99 | . 41 | . 30 | 163 | 62 | 100 | . 45 | . 31 |
|  | TS2 | 387 | 57 | 98 | . 57 | . 45 | 51 | 97 | . 60 | . 40 | 50 | 98 | . 52 | . 38 | 65 | 63 | 95 | . 49 | . 37 |
|  | Analytic | 160 | 66 | 97 | . 49 | . 37 | 64 | 99 | . 57 | . 43 | 61 | 98 | . 43 | . 31 | 60 | 65 | 100 | . 64 | . 45 |
|  | Expository | 183 | 46 | 97 | . 47 | . 35 | 55 | 99 | . 70 | . 52 | 59 | 98 | . 50 | . 39 | 60 | 73 | 100 | . 82 | . 64 |
|  | Other | 161 | 58 | 99 | . 16 | . 10 | 55 | 97 | . 15 | . 11 | 60 | 98 | . 08 | . 05 | 0 |  |  |  |  |
|  | Personal Narrative | 98 | 57 | 99 | . 42 | . 30 | 61 | 98 | . 23 | . 15 | 57 | 99 | . 27 | . 18 | 60 | 58 | 100 | . 31 | . 19 |
|  | Persuasive | 257 | 64 | 98 | . 39 | . 28 | 70 | 100 | . 49 | . 33 | 65 | 98 | . 38 | . 27 | 60 | 67 | 98 | . 22 | . 16 |
|  | Persuasive_TS | 856 | 56 | 98 | . 49 | . 39 | 53 | 97 | . 45 | . 34 | 54 | 97 | . 52 | . 39 | 167 | 63 | 98 | . 54 | . 43 |
|  | 1000035 | 284 | 56 | 98 | . 51 | . 41 | 51 | 96 | . 38 | . 29 | 58 | 98 | . 61 | . 45 | 62 | 69 | 98 | . 55 | . 42 |
|  | 1000036 | 308 | 54 | 98 | . 39 | . 30 | 53 | 99 | . 49 | . 35 | 54 | 97 | . 47 | . 35 | 59 | 66 | 98 | . 64 | . 52 |
|  | 1000037 | 264 | 58 | 97 | . 55 | . 45 | 53 | 97 | . 49 | . 37 | 51 | 96 | . 47 | . 37 | 46 | 52 | 96 | . 36 | . 28 |
|  | Total | 1715 | 57 | 98 | . 45 | . 35 | 57 | 98 | . 48 | . 36 | 58 | 97 | . 46 | . 35 | 407 | 65 | 99 | . 56 | . 44 |

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not
have such a suffix; The numbers are the prompt IDs of timed samples.
${ }^{\mathrm{b}} \mathrm{N}$ is the same for the comparisons among Teacher, ESC, and TR1 raters; N for the comparison between TR1 and TR2 raters is different.
${ }^{c} E A=$ Percentage of exact agreement, EAA=Percentage of exact or adjacent agreement, COR=Correlation, WK=Weighted Kappa with quadratic weights.

## APPENDIX J: RATER SCORE CONSISTENCY BY CLASS

Because the students in a class took the same set of writing prompts, the percentages of exact agreement (EA), percentages of exact or adjacent agreement (EAA), polychoric correlations (Cor), and quadratic weighted kappa coefficients (WKC) were calculated at the class level for each writing sample score in each test among rating scores from the three raters-Teacher, ESC rater, and Trained Rater 1-for each class with a sample size of at least 30. Polychoric correlation was not calculated for Conventions score at the class level because sometimes it might not be stable with a small sample size. Tables J1-J4 report the summaries ( $N$, mean, standard deviation, max, and min) of these statistics across classes. These statistics varied across classes and have some variations across writing samples, scores, rater pairs, and tests. Overall, the range of exact agreement at the class level was between $3 \%$ and $66 \%$ (except for Conventions score), the range of adjacent agreement was between $23 \%$ and $100 \%$ (except for Conventions score), the range of polychoric correlations was between -0.47 and 0.84 (except for Conventions score), and the range of kappa coefficients was between -0.39 and 0.71 . For Conventions score, the range of exact agreement was between $14 \%$ and $79 \%$ and the range of adjacent agreement was between $52 \%$ and $100 \%$.

Table J1. Summary of Rater Score Consistency by Class: Grade 4 Writing

| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
| Organization | TS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 34 | 28 | 73 | . 34 | . 26 | 29 | 79 | . 53 | . 39 | 37 | 83 | . 47 | . 41 |
|  |  | StdDev | 4 | 9 | 12 | . 11 | . 15 | 7 | 8 | . 15 | . 14 | 12 | 7 | . 12 | . 11 |
|  |  | Max | 40 | 38 | 85 | . 49 | . 46 | 40 | 93 | . 76 | . 63 | 50 | 91 | . 70 | . 60 |
|  |  | Min | 30 | 18 | 55 | . 17 | . 05 | 23 | 73 | . 31 | . 24 | 20 | 70 | . 37 | . 26 |
|  | PS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 34 | 34 | 76 | . 36 | . 25 | 28 | 80 | . 29 | . 18 | 26 | 73 | . 24 | . 19 |
|  |  | StdDev | 4 | 8 | 15 | . 26 | . 21 | 6 | 15 | . 21 | . 16 | 12 | 5 | . 18 | . 15 |
|  |  | Max | 40 | 45 | 94 | . 66 | . 48 | 37 | 89 | . 56 | . 41 | 39 | 80 | . 37 | . 30 |
|  |  | Min | 30 | 25 | 53 | . 03 | . 01 | 20 | 50 | . 03 | . 00 | 10 | 68 | -. 12 | -. 10 |
|  | PS2 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 34 | 31 | 79 | . 37 | . 23 | 37 | 84 | . 50 | . 31 | 33 | 85 | . 44 | . 33 |
|  |  | StdDev | 4 | 7 | 8 | . 19 | . 13 | 20 | 8 | . 12 | . 10 | 10 | 6 | . 12 | . 09 |

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| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
|  |  | Max | 40 | 37 | 87 | . 56 | . 39 | 66 | 94 | . 65 | . 44 | 42 | 93 | . 60 | . 47 |
|  |  | Min | 30 | 22 | 69 | . 05 | . 03 | 12 | 73 | . 32 | . 15 | 19 | 78 | . 27 | . 24 |
|  | TS2 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 34 | 28 | 77 | . 50 | . 32 | 24 | 69 | . 52 | . 28 | 34 | 82 | . 43 | . 35 |
|  |  | StdDev | 4 | 15 | 17 | . 12 | . 12 | 12 | 13 | . 23 | . 11 | 7 | 5 | . 17 | . 15 |
|  |  | Max | 40 | 53 | 92 | . 71 | . 45 | 44 | 88 | . 81 | . 41 | 43 | 87 | . 70 | . 57 |
|  |  | Min | 30 | 10 | 47 | . 40 | . 12 | 10 | 53 | . 16 | . 11 | 25 | 76 | . 24 | . 20 |
| Content | TS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 34 | 28 | 70 | . 40 | . 29 | 33 | 78 | . 52 | . 40 | 33 | 78 | . 35 | . 30 |
|  |  | StdDev | 4 | 11 | 10 | . 10 | . 14 | 11 | 8 | . 18 | . 16 | 11 | 9 | . 21 | . 16 |
|  |  | Max | 40 | 48 | 85 | . 59 | . 52 | 45 | 90 | . 70 | . 57 | 48 | 91 | . 58 | . 45 |
|  |  | Min | 30 | 18 | 57 | . 32 | . 12 | 20 | 71 | . 29 | . 14 | 19 | 68 | . 09 | . 09 |
|  | PS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 34 | 28 | 77 | . 42 | . 29 | 32 | 74 | . 31 | . 23 | 24 | 74 | . 27 | . 22 |
|  |  | StdDev | 4 | 7 | 9 | . 21 | . 19 | 11 | 15 | . 21 | . 16 | 14 | 10 | . 14 | . 11 |
|  |  | Max | 40 | 39 | 88 | . 66 | . 55 | 47 | 89 | . 59 | . 46 | 45 | 83 | . 49 | . 36 |
|  |  | Min | 30 | 18 | 63 | . 07 | -. 01 | 18 | 50 | -. 02 | . 01 | 7 | 61 | . 07 | . 03 |
|  | PS2 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 34 | 30 | 74 | . 35 | . 21 | 25 | 76 | . 30 | . 19 | 36 | 83 | . 32 | . 24 |
|  |  | StdDev | 4 | 9 | 7 | . 31 | . 15 | 11 | 14 | . 26 | . 16 | 8 | 6 | . 18 | . 13 |
|  |  | Max | 40 | 39 | 84 | . 73 | . 33 | 41 | 88 | . 69 | . 40 | 48 | 90 | . 50 | . 41 |
|  |  | Min | 30 | 18 | 67 | -. 17 | -. 05 | 7 | 58 | . 02 | . 00 | 28 | 74 | . 05 | . 06 |
|  | TS2 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

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| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
|  |  | Mean | 34 | 24 | 66 | . 49 | . 28 | 29 | 71 | . 53 | . 28 | 30 | 82 | . 41 | . 34 |
|  |  | StdDev | 4 | 15 | 19 | . 19 | . 13 | 10 | 11 | . 25 | . 16 | 10 | 7 | . 30 | . 25 |
|  |  | Max | 40 | 47 | 89 | . 66 | . 47 | 44 | 88 | . 69 | . 45 | 47 | 93 | . 78 | . 67 |
|  |  | Min | 30 | 3 | 40 | . 21 | . 09 | 17 | 60 | . 02 | -. 01 | 18 | 73 | -. 14 | -. 07 |
| Language | TS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 34 | 28 | 76 | . 48 | . 30 | 31 | 80 | . 59 | . 41 | 41 | 85 | . 53 | . 45 |
|  |  | StdDev | 4 | 7 | 9 | . 15 | . 11 | 13 | 9 | . 16 | . 12 | 4 | 6 | . 20 | . 17 |
|  |  | Max | 40 | 34 | 85 | . 69 | . 45 | 50 | 88 | . 78 | . 58 | 45 | 94 | . 72 | . 65 |
|  |  | Min | 30 | 18 | 60 | . 31 | . 18 | 18 | 67 | . 39 | . 23 | 34 | 78 | . 18 | . 18 |
|  | PS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 34 | 26 | 73 | . 34 | . 21 | 26 | 69 | . 28 | . 16 | 29 | 75 | . 28 | . 23 |
|  |  | StdDev | 4 | 11 | 13 | . 24 | . 18 | 11 | 18 | . 19 | . 14 | 9 | 7 | . 14 | . 11 |
|  |  | Max | 40 | 41 | 88 | . 59 | . 41 | 41 | 84 | . 54 | . 33 | 38 | 83 | . 45 | . 38 |
|  |  | Min | 30 | 15 | 53 | -. 07 | -. 03 | 10 | 33 | -. 04 | -. 01 | 17 | 63 | . 10 | . 08 |
|  | PS2 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 34 | 29 | 73 | . 41 | . 21 | 23 | 68 | . 37 | . 16 | 36 | 83 | . 41 | . 30 |
|  |  | StdDev | 4 | 15 | 12 | . 20 | . 05 | 12 | 20 | . 21 | . 10 | 12 | 9 | . 20 | . 17 |
|  |  | Max | 40 | 47 | 89 | . 81 | . 28 | 38 | 84 | . 65 | . 30 | 50 | 95 | . 70 | . 57 |
|  |  | Min | 30 | 10 | 53 | . 25 | . 14 | 6 | 37 | . 09 | . 03 | 16 | 72 | . 15 | . 10 |
|  | TS2 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 34 | 21 | 65 | . 55 | . 29 | 24 | 64 | . 54 | . 26 | 32 | 81 | . 41 | . 33 |
|  |  | StdDev | 4 | 13 | 28 | . 14 | . 13 | 17 | 19 | . 24 | . 15 | 5 | 6 | . 22 | . 19 |
|  |  | Max | 40 | 39 | 97 | . 73 | . 47 | 45 | 88 | . 79 | . 45 | 40 | 93 | . 65 | . 56 |


| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
|  |  | Min | 30 | 3 | 23 | . 36 | . 08 | 7 | 40 | . 08 | . 05 | 28 | 75 | . 01 | . 00 |
| Conventions | TS1 | N | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 |
|  |  | Mean | 34 | 56 | 99 |  | . 26 | 53 | 99 |  | . 28 | 61 | 98 |  | . 37 |
|  |  | StdDev | 4 | 11 | 1 |  | . 22 | 13 | 1 |  | . 15 | 11 | 3 |  | . 17 |
|  |  | Max | 40 | 75 | 100 |  | . 65 | 72 | 100 |  | . 47 | 76 | 100 |  | . 65 |
|  |  | Min | 30 | 42 | 97 |  | . 03 | 30 | 97 |  | . 02 | 47 | 92 |  | . 18 |
|  | PS1 | N | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 |
|  |  | Mean | 34 | 53 | 98 |  | . 18 | 48 | 96 |  | . 10 | 42 | 96 |  | . 10 |
|  |  | StdDev | 4 | 5 | 4 |  | . 21 | 15 | 7 |  | . 17 | 14 | 4 |  | . 25 |
|  |  | Max | 40 | 60 | 100 |  | . 44 | 66 | 100 |  | . 34 | 63 | 100 |  | . 34 |
|  |  | Min | 30 | 47 | 90 |  | -. 10 | 30 | 83 |  | -. 07 | 23 | 90 |  | -. 34 |
|  | PS2 | N | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 |
|  |  | Mean | 34 | 61 | 99 |  | . 21 | 56 | 98 |  | . 11 | 56 | 96 |  | . 14 |
|  |  | StdDev | 4 | 15 | 2 |  | . 19 | 13 | 3 |  | . 12 | 12 | 4 |  | . 26 |
|  |  | Max | 40 | 75 | 100 |  | . 52 | 69 | 100 |  | . 26 | 73 | 100 |  | . 53 |
|  |  | Min | 30 | 37 | 97 |  | . 00 | 33 | 93 |  | -. 03 | 40 | 90 |  | -. 26 |
|  | TS2 | N | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 |
|  |  | Mean | 34 | 50 | 99 |  | . 13 | 54 | 100 |  | . 18 | 53 | 98 |  | . 21 |
|  |  | StdDev | 4 | 13 | 3 |  | . 04 | 9 | 0 |  | . 13 | 9 | 3 |  | . 19 |
|  |  | Max | 40 | 66 | 100 |  | . 19 | 66 | 100 |  | . 33 | 64 | 100 |  | . 37 |
|  |  | Min | 30 | 36 | 93 |  | . 10 | 40 | 100 |  | . 02 | 39 | 93 |  | -. 11 |

a TS1=Timed Sample 1, PS1=Process Sample 1, PS2=Process Sample 2, TS2=Timed Sample 2.
${ }^{\text {b }}$ EA=Percentage of exact agreement, EAA=Percentage of exact or adjacent agreement, COR=Correlation, WK=Weighted Kappa with quadratic weights.

Table J2. Summary of Rater Score Consistency by Class: Grade 7 Writing

| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
| Organization | TS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 44 | 32 | 80 | . 46 | . 38 | 31 | 76 | . 43 | . 32 | 34 | 80 | . 36 | . 32 |
|  |  | StdDev | 18 | 9 | 8 | . 10 | . 11 | 12 | 10 | . 07 | . 08 | 8 | 4 | . 26 | . 23 |
|  |  | Max | 79 | 42 | 88 | . 61 | . 48 | 52 | 90 | . 52 | . 42 | 47 | 85 | . 62 | . 55 |
|  |  | Min | 31 | 21 | 70 | . 36 | . 23 | 19 | 62 | . 30 | . 20 | 25 | 75 | -. 13 | -. 09 |
|  | PS1 | N | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|  |  | Mean | 55 | 35 | 80 | . 50 | . 42 | 36 | 90 | . 56 | . 46 | 32 | 78 | . 44 | . 36 |
|  |  | StdDev | 33 | 3 | 4 | . 05 | . 08 | 9 | 5 | . 05 | . 00 | 4 | 1 | . 14 | . 10 |
|  |  | Max | 78 | 37 | 83 | . 53 | . 47 | 42 | 94 | . 60 | . 46 | 35 | 79 | . 54 | . 43 |
|  |  | Min | 31 | 32 | 77 | . 46 | . 36 | 29 | 86 | . 52 | . 46 | 29 | 77 | . 34 | . 29 |
|  | TS2 | N | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |  | Mean | 41 | 25 | 73 | . 47 | . 25 | 32 | 74 | . 52 | . 30 | 38 | 85 | . 48 | . 41 |
|  |  | StdDev | 2 | 11 | 11 | . 21 | . 02 | 10 | 8 | . 07 | . 06 | 5 | 5 | . 13 | . 11 |
|  |  | Max | 44 | 38 | 83 | . 72 | . 27 | 38 | 83 | . 58 | . 36 | 41 | 91 | . 62 | . 53 |
|  |  | Min | 40 | 16 | 61 | . 32 | . 22 | 20 | 66 | . 45 | . 24 | 33 | 80 | . 37 | . 33 |
| Content | TS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 44 | 35 | 78 | . 51 | . 39 | 31 | 72 | . 40 | . 31 | 35 | 80 | . 39 | . 33 |
|  |  | StdDev | 18 | 5 | 8 | . 12 | . 13 | 14 | 11 | . 07 | . 05 | 5 | 6 | . 21 | . 17 |
|  |  | Max | 79 | 45 | 90 | . 65 | . 55 | 58 | 87 | . 49 | . 38 | 40 | 87 | . 53 | . 46 |
|  |  | Min | 31 | 29 | 64 | . 33 | . 23 | 19 | 57 | . 29 | . 24 | 26 | 71 | . 03 | . 03 |
|  | PS1 | N | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |


| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
|  |  | Mean | 55 | 32 | 86 | . 63 | . 52 | 31 | 82 | . 42 | . 35 | 33 | 74 | . 49 | . 41 |
|  |  | StdDev | 33 | 1 | 7 | . 01 | . 03 | 7 | 7 | . 19 | . 19 | 13 | 5 | . 06 | . 01 |
|  |  | Max | 78 | 32 | 90 | . 63 | . 54 | 36 | 87 | . 56 | . 49 | 42 | 77 | . 53 | . 42 |
|  |  | Min | 31 | 31 | 81 | . 62 | . 50 | 26 | 77 | . 28 | . 22 | 23 | 71 | . 44 | . 41 |
|  | TS2 | N | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |  | Mean | 41 | 21 | 68 | . 46 | . 27 | 30 | 76 | . 60 | . 41 | 37 | 79 | . 37 | . 30 |
|  |  | StdDev | 2 | 11 | 13 | . 11 | . 03 | 11 | 9 | . 09 | . 09 | 7 | 4 | . 11 | . 08 |
|  |  | Max | 44 | 30 | 83 | . 58 | . 30 | 43 | 83 | . 69 | . 47 | 45 | 83 | . 50 | . 40 |
|  |  | Min | 40 | 9 | 57 | . 39 | . 24 | 23 | 66 | . 52 | . 30 | 33 | 75 | . 29 | . 24 |
| Language | TS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 44 | 32 | 79 | . 62 | . 43 | 32 | 75 | . 43 | . 31 | 36 | 87 | . 48 | . 41 |
|  |  | StdDev | 18 | 12 | 11 | . 16 | . 11 | 10 | 14 | . 12 | . 12 | 4 | 7 | . 13 | . 11 |
|  |  | Max | 79 | 45 | 94 | . 78 | . 62 | 42 | 94 | . 59 | . 45 | 42 | 94 | . 69 | . 58 |
|  |  | Min | 31 | 12 | 68 | . 44 | . 31 | 17 | 55 | . 25 | . 17 | 32 | 77 | . 33 | . 30 |
|  | PS1 | N | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|  |  | Mean | 55 | 43 | 89 | . 71 | . 60 | 33 | 81 | . 46 | . 36 | 31 | 81 | . 52 | . 44 |
|  |  | StdDev | 33 | 8 | 2 | . 14 | . 09 | 1 | 4 | . 00 | . 00 | 6 | 4 | . 09 | . 10 |
|  |  | Max | 78 | 48 | 90 | . 81 | . 67 | 33 | 84 | . 47 | . 36 | 35 | 84 | . 59 | . 51 |
|  |  | Min | 31 | 37 | 87 | . 61 | . 53 | 32 | 78 | . 46 | . 36 | 27 | 78 | . 46 | . 37 |
|  | TS2 | N | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |  | Mean | 41 | 18 | 58 | . 47 | . 20 | 21 | 63 | . 61 | . 30 | 42 | 86 | . 47 | . 39 |
|  |  | StdDev | 2 | 10 | 12 | . 09 | . 03 | 7 | 16 | . 13 | . 03 | 4 | 3 | . 09 | . 09 |
|  |  | Max | 44 | 25 | 68 | . 56 | . 23 | 28 | 73 | . 76 | . 33 | 45 | 89 | . 54 | . 47 |

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| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
|  |  | Min | 40 | 7 | 45 | . 39 | . 17 | 14 | 45 | . 51 | . 28 | 38 | 83 | . 37 | . 30 |
| Conventions | TS1 | N | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 |
|  |  | Mean | 44 | 56 | 97 |  | . 33 | 57 | 97 |  | . 32 | 61 | 98 |  | . 31 |
|  |  | StdDev | 18 | 12 | 6 |  | . 11 | 12 | 6 |  | . 16 | 5 | 3 |  | . 17 |
|  |  | Max | 79 | 70 | 100 |  | . 45 | 71 | 100 |  | . 53 | 68 | 100 |  | . 47 |
|  |  | Min | 31 | 36 | 86 |  | . 17 | 40 | 86 |  | . 12 | 53 | 92 |  | -. 02 |
|  | PS1 | N | 2 | 2 | 2 |  | 2 | 2 | 2 |  | 2 | 2 | 2 |  | 2 |
|  |  | Mean | 55 | 61 | 98 |  | . 43 | 56 | 99 |  | . 34 | 48 | 97 |  | . 30 |
|  |  | StdDev | 33 | 9 | 3 |  | . 00 | 7 | 1 |  | . 03 | 15 | 0 |  | . 04 |
|  |  | Max | 78 | 68 | 100 |  | . 44 | 61 | 100 |  | . 36 | 58 | 97 |  | . 33 |
|  |  | Min | 31 | 55 | 96 |  | . 43 | 51 | 99 |  | . 32 | 37 | 97 |  | . 27 |
|  | TS2 | N | 3 | 3 | 3 |  | 3 | 3 | 3 |  | 3 | 3 | 3 |  | 3 |
|  |  | Mean | 41 | 44 | 80 |  | . 17 | 45 | 92 |  | . 25 | 49 | 96 |  | . 16 |
|  |  | StdDev | 2 | 27 | 24 |  | . 12 | 18 | 11 |  | . 09 | 8 | 1 |  | . 08 |
|  |  | Max | 44 | 68 | 98 |  | . 29 | 60 | 100 |  | . 36 | 55 | 98 |  | . 23 |
|  |  | Min | 40 | 14 | 52 |  | . 05 | 25 | 80 |  | . 20 | 40 | 95 |  | . 08 |

a TS1=Timed Sample 1, PS1=Process Sample 1, PS2=Process Sample 2, TS2=Timed Sample 2.
${ }^{b} E A=$ Percentage of exact agreement, EAA=Percentage of exact or adjacent agreement, COR=Correlation, WK=Weighted Kappa with quadratic weights.

Table J3. Summary of Rater Score Consistency by Class: English I

| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
| Organization | TS1 | N | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |  | Mean | 78 | 32 | 80 | . 39 | . 31 | 36 | 80 | . 41 | . 33 | 32 | 76 | . 32 | . 29 |
|  |  | StdDev | 41 | 7 | 8 | . 22 | . 20 | 7 | 8 | . 19 | . 18 | 10 | 6 | . 34 | . 30 |
|  |  | Max | 148 | 42 | 91 | . 65 | . 59 | 47 | 89 | . 73 | . 66 | 44 | 86 | . 61 | . 56 |
|  |  | Min | 34 | 24 | 67 | . 00 | . 00 | 26 | 68 | . 21 | . 13 | 12 | 68 | -. 47 | -. 39 |
|  | PS1 | N | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|  |  | Mean | 52 | 36 | 82 | . 35 | . 27 | 34 | 83 | . 46 | . 33 | 36 | 78 | . 39 | . 32 |
|  |  | StdDev | 19 | 7 | 8 | . 31 | . 21 | 10 | 4 | . 08 | . 09 | 3 | 7 | . 18 | . 15 |
|  |  | Max | 81 | 44 | 90 | . 62 | . 45 | 49 | 89 | . 56 | . 46 | 41 | 89 | . 63 | . 56 |
|  |  | Min | 34 | 25 | 71 | -. 13 | -. 06 | 22 | 78 | . 38 | . 21 | 31 | 69 | . 19 | . 17 |
|  | PS2 | N | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |  | Mean | 70 | 34 | 77 | . 41 | . 32 | 36 | 84 | . 47 | . 37 | 28 | 77 | . 33 | . 26 |
|  |  | StdDev | 44 | 11 | 7 | . 22 | . 16 | 9 | 9 | . 14 | . 13 | 9 | 8 | . 25 | . 21 |
|  |  | Max | 148 | 47 | 91 | . 75 | . 56 | 49 | 100 | . 77 | . 62 | 40 | 84 | . 58 | . 52 |
|  |  | Min | 30 | 13 | 69 | . 00 | . 01 | 23 | 73 | . 33 | . 20 | 17 | 60 | -. 24 | -. 21 |
|  | TS2 | N | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |  | Mean | 78 | 34 | 83 | . 56 | . 42 | 33 | 81 | . 48 | . 38 | 35 | 82 | . 42 | . 36 |
|  |  | StdDev | 40 | 8 | 7 | . 14 | . 13 | 5 | 7 | . 12 | . 10 | 6 | 7 | . 17 | . 14 |
|  |  | Max | 142 | 46 | 91 | . 77 | . 59 | 41 | 94 | . 65 | . 56 | 44 | 94 | . 80 | . 67 |
|  |  | Min | 33 | 20 | 68 | . 35 | . 27 | 25 | 71 | . 25 | . 25 | 25 | 73 | . 25 | . 22 |
| Content | TS1 | N | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

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| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
|  |  | Mean | 78 | 38 | 82 | . 42 | . 35 | 38 | 83 | . 39 | . 34 | 35 | 79 | . 38 | . 34 |
|  |  | StdDev | 41 | 6 | 8 | . 20 | . 18 | 9 | 7 | . 24 | . 22 | 4 | 7 | . 24 | . 21 |
|  |  | Max | 148 | 49 | 91 | . 72 | . 64 | 51 | 95 | . 73 | . 66 | 43 | 90 | . 63 | . 57 |
|  |  | Min | 34 | 30 | 65 | . 12 | . 09 | 26 | 71 | . 15 | . 13 | 29 | 68 | -. 17 | -. 14 |
|  | PS1 | N | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|  |  | Mean | 52 | 32 | 79 | . 40 | . 29 | 34 | 84 | . 41 | . 28 | 32 | 79 | . 38 | . 29 |
|  |  | StdDev | 19 | 13 | 12 | . 18 | . 18 | 8 | 7 | . 16 | . 16 | 7 | 9 | . 17 | . 16 |
|  |  | Max | 81 | 44 | 94 | . 66 | . 54 | 43 | 93 | . 65 | . 55 | 41 | 90 | . 63 | . 57 |
|  |  | Min | 34 | 15 | 62 | . 16 | . 05 | 25 | 74 | . 22 | . 15 | 25 | 69 | . 19 | . 14 |
|  | PS2 | N | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |  | Mean | 70 | 34 | 79 | . 44 | . 35 | 34 | 83 | . 43 | . 33 | 31 | 79 | . 36 | . 30 |
|  |  | StdDev | 44 | 3 | 10 | . 20 | . 14 | 7 | 11 | . 13 | . 12 | 6 | 6 | . 21 | . 17 |
|  |  | Max | 148 | 38 | 90 | . 70 | . 56 | 46 | 92 | . 58 | . 46 | 39 | 88 | . 56 | . 50 |
|  |  | Min | 30 | 30 | 66 | . 08 | . 05 | 25 | 61 | . 18 | . 14 | 21 | 69 | -. 03 | -. 03 |
|  | TS2 | N | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |  | Mean | 78 | 30 | 82 | . 57 | . 43 | 34 | 82 | . 48 | . 37 | 34 | 81 | . 38 | . 33 |
|  |  | StdDev | 40 | 7 | 8 | . 13 | . 13 | 8 | 8 | . 12 | . 11 | 5 | 5 | . 18 | . 17 |
|  |  | Max | 142 | 40 | 92 | . 74 | . 64 | 51 | 94 | . 65 | . 60 | 40 | 87 | . 71 | . 66 |
|  |  | Min | 33 | 18 | 70 | . 31 | . 20 | 25 | 71 | . 32 | . 27 | 26 | 71 | . 17 | . 13 |
| Language | TS1 | N | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |  | Mean | 78 | 37 | 85 | . 45 | . 36 | 37 | 82 | . 38 | . 31 | 35 | 82 | . 39 | . 34 |
|  |  | StdDev | 41 | 5 | 4 | . 20 | . 16 | 7 | 8 | . 23 | . 19 | 5 | 5 | . 24 | . 21 |
|  |  | Max | 148 | 43 | 90 | . 71 | . 64 | 47 | 91 | . 72 | . 64 | 41 | 89 | . 62 | . 55 |


| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
|  |  | Min | 34 | 29 | 78 | . 20 | . 15 | 28 | 65 | . 07 | . 08 | 29 | 74 | -. 16 | -. 13 |
|  | PS1 | N | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|  |  | Mean | 52 | 38 | 85 | . 36 | . 27 | 35 | 83 | . 42 | . 31 | 36 | 81 | . 31 | . 27 |
|  |  | StdDev | 19 | 9 | 9 | . 24 | . 19 | 9 | 9 | . 21 | . 19 | 6 | 7 | . 17 | . 16 |
|  |  | Max | 81 | 49 | 92 | . 63 | . 50 | 49 | 90 | . 64 | . 51 | 42 | 89 | . 54 | . 50 |
|  |  | Min | 34 | 26 | 73 | -. 01 | -. 01 | 24 | 71 | . 19 | . 11 | 30 | 74 | . 10 | . 10 |
|  | PS2 | N | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |  | Mean | 70 | 36 | 79 | . 40 | . 32 | 35 | 83 | . 47 | . 36 | 34 | 80 | . 34 | . 29 |
|  |  | StdDev | 44 | 7 | 5 | . 24 | . 20 | 4 | 8 | . 10 | . 09 | 8 | 7 | . 25 | . 22 |
|  |  | Max | 148 | 53 | 89 | . 72 | . 50 | 41 | 91 | . 60 | . 45 | 45 | 88 | . 67 | . 61 |
|  |  | Min | 30 | 28 | 74 | -. 05 | -. 05 | 27 | 67 | . 33 | . 21 | 23 | 69 | -. 13 | -. 12 |
|  | TS2 | N | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |  | Mean | 78 | 33 | 86 | . 60 | . 46 | 31 | 84 | . 52 | . 41 | 35 | 84 | . 45 | . 39 |
|  |  | StdDev | 40 | 10 | 7 | . 12 | . 10 | 6 | 6 | . 13 | . 11 | 5 | 5 | . 12 | . 10 |
|  |  | Max | 142 | 43 | 97 | . 78 | . 65 | 40 | 97 | . 71 | . 59 | 41 | 89 | . 62 | . 51 |
|  |  | Min | 33 | 12 | 73 | . 45 | . 34 | 22 | 76 | . 32 | . 29 | 27 | 75 | . 22 | . 19 |
| Conventions | TS1 | N | 8 | 8 | 8 |  | 8 | 8 | 8 |  | 8 | 8 | 8 |  | 8 |
|  |  | Mean | 78 | 53 | 98 |  | . 28 | 56 | 97 |  | . 31 | 54 | 96 |  | . 24 |
|  |  | StdDev | 41 | 10 | 4 |  | . 18 | 10 | 3 |  | . 22 | 7 | 3 |  | . 18 |
|  |  | Max | 148 | 69 | 100 |  | . 59 | 71 | 100 |  | . 56 | 69 | 100 |  | . 53 |
|  |  | Min | 34 | 41 | 88 |  | . 07 | 44 | 94 |  | . 00 | 48 | 92 |  | . 05 |
|  | PS1 | N | 5 | 5 | 5 |  | 5 | 5 | 5 |  | 5 | 5 | 5 |  | 5 |
|  |  | Mean | 52 | 51 | 97 |  | . 15 | 53 | 98 |  | . 18 | 57 | 96 |  | . 20 |

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| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
|  |  | StdDev | 19 | 14 | 3 |  | . 14 | 8 | 1 |  | . 09 | 8 | 2 |  | . 14 |
|  |  | Max | 81 | 69 | 100 |  | . 33 | 62 | 100 |  | . 29 | 67 | 98 |  | . 44 |
|  |  | Min | 34 | 38 | 93 |  | -. 04 | 42 | 96 |  | . 07 | 46 | 94 |  | . 10 |
|  | PS2 | N | 8 | 8 | 8 |  | 8 | 8 | 8 |  | 8 | 8 | 8 |  | 8 |
|  |  | Mean | 70 | 52 | 96 |  | . 23 | 57 | 98 |  | . 23 | 55 | 97 |  | . 20 |
|  |  | StdDev | 44 | 10 | 3 |  | . 15 | 9 | 3 |  | . 14 | 8 | 2 |  | . 21 |
|  |  | Max | 148 | 66 | 99 |  | . 41 | 67 | 100 |  | . 45 | 63 | 100 |  | . 44 |
|  |  | Min | 30 | 40 | 90 |  | -. 03 | 43 | 90 |  | . 05 | 40 | 94 |  | -. 14 |
|  | TS2 | N | 8 | 8 | 8 |  | 8 | 8 | 8 |  | 8 | 8 | 8 |  | 8 |
|  |  | Mean | 78 | 60 | 98 |  | . 29 | 55 | 98 |  | . 27 | 66 | 99 |  | . 29 |
|  |  | StdDev | 40 | 15 | 2 |  | . 12 | 14 | 3 |  | . 13 | 7 | 1 |  | . 13 |
|  |  | Max | 142 | 77 | 100 |  | . 50 | 71 | 100 |  | . 47 | 79 | 100 |  | . 49 |
|  |  | Min | 33 | 35 | 94 |  | . 14 | 33 | 90 |  | . 09 | 55 | 97 |  | . 13 |

${ }^{\text {a }}$ TS1=Timed Sample 1, PS1=Process Sample 1, PS2=Process Sample 2, TS2=Timed Sample 2.
${ }^{\mathrm{b}}$ EA=Percentage of exact agreement, EAA=Percentage of exact or adjacent agreement, COR=Correlation, WK=Weighted Kappa with quadratic weights.

Table J4. Summary of Rater Score Consistency by Class: English II

| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
| Organization | TS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 69 | 28 | 72 | . 34 | . 27 | 32 | 79 | . 38 | . 31 | 28 | 75 | . 31 | . 26 |
|  |  | StdDev | 22 | 7 | 10 | . 14 | . 13 | 9 | 8 | . 18 | . 17 | 4 | 6 | . 09 | . 10 |
|  |  | Max | 95 | 38 | 84 | . 52 | . 47 | 43 | 94 | . 70 | . 62 | 35 | 81 | . 48 | . 43 |
|  |  | Min | 32 | 21 | 55 | . 20 | . 13 | 18 | 73 | . 21 | . 17 | 24 | 67 | . 22 | . 16 |
|  | PS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 65 | 31 | 73 | . 36 | . 26 | 33 | 74 | . 33 | . 24 | 37 | 80 | . 31 | . 27 |
|  |  | StdDev | 17 | 13 | 13 | . 11 | . 13 | 11 | 14 | . 09 | . 05 | 10 | 5 | . 10 | . 08 |
|  |  | Max | 82 | 51 | 93 | . 51 | . 46 | 46 | 95 | . 44 | . 31 | 51 | 86 | . 48 | . 38 |
|  |  | Min | 35 | 18 | 62 | . 24 | . 16 | 18 | 57 | . 22 | . 18 | 26 | 72 | . 18 | . 14 |
|  | PS2 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 62 | 32 | 77 | . 44 | . 36 | 29 | 75 | . 36 | . 25 | 31 | 74 | . 28 | . 21 |
|  |  | StdDev | 21 | 8 | 7 | . 17 | . 16 | 9 | 11 | . 13 | . 10 | 7 | 7 | . 14 | . 11 |
|  |  | Max | 87 | 44 | 82 | . 69 | . 62 | 39 | 85 | . 48 | . 36 | 42 | 81 | . 40 | . 34 |
|  |  | Min | 34 | 25 | 65 | . 21 | . 19 | 20 | 56 | . 10 | . 08 | 21 | 66 | . 08 | . 07 |
|  | TS2 | N | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|  |  | Mean | 67 | 36 | 79 | . 54 | . 38 | 24 | 64 | . 50 | . 30 | 34 | 80 | . 43 | . 37 |
|  |  | StdDev | 20 | 8 | 8 | . 13 | . 17 | 13 | 14 | . 07 | . 15 | 7 | 6 | . 11 | . 12 |
|  |  | Max | 93 | 47 | 92 | . 68 | . 57 | 45 | 84 | . 59 | . 54 | 42 | 87 | . 57 | . 51 |
|  |  | Min | 38 | 25 | 71 | . 38 | . 20 | 14 | 52 | . 43 | . 16 | 25 | 71 | . 28 | . 25 |
| Content | TS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

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| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
|  |  | Mean | 69 | 28 | 69 | . 37 | . 27 | 29 | 74 | . 36 | . 27 | 30 | 76 | . 36 | . 32 |
|  |  | StdDev | 22 | 12 | 16 | . 09 | . 12 | 12 | 16 | . 16 | . 16 | 5 | 6 | . 10 | . 09 |
|  |  | Max | 95 | 41 | 85 | . 47 | . 39 | 40 | 87 | . 59 | . 51 | 38 | 84 | . 49 | . 45 |
|  |  | Min | 32 | 12 | 41 | . 24 | . 11 | 9 | 46 | . 18 | . 12 | 22 | 69 | . 24 | . 23 |
|  | PS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 65 | 28 | 72 | . 31 | . 22 | 33 | 74 | . 32 | . 22 | 39 | 79 | . 30 | . 26 |
|  |  | StdDev | 17 | 12 | 17 | . 18 | . 18 | 11 | 16 | . 15 | . 13 | 10 | 6 | . 17 | . 13 |
|  |  | Max | 82 | 49 | 93 | . 61 | . 50 | 51 | 96 | . 46 | . 42 | 55 | 88 | . 43 | . 36 |
|  |  | Min | 35 | 17 | 55 | . 10 | . 06 | 19 | 59 | . 07 | . 07 | 30 | 73 | -. 03 | . 01 |
|  | PS2 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 62 | 33 | 81 | . 53 | . 40 | 27 | 74 | . 36 | . 23 | 37 | 82 | . 37 | . 28 |
|  |  | StdDev | 21 | 14 | 11 | . 08 | . 13 | 11 | 18 | . 22 | . 15 | 8 | 9 | . 12 | . 08 |
|  |  | Max | 87 | 44 | 92 | . 65 | . 57 | 42 | 95 | . 53 | . 42 | 46 | 90 | . 54 | . 41 |
|  |  | Min | 34 | 8 | 60 | . 42 | . 18 | 13 | 42 | . 00 | . 02 | 26 | 65 | . 25 | . 19 |
|  | TS2 | N | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|  |  | Mean | 67 | 25 | 69 | . 58 | . 36 | 21 | 65 | . 57 | . 34 | 36 | 84 | . 55 | . 50 |
|  |  | StdDev | 20 | 14 | 17 | . 18 | . 21 | 9 | 16 | . 12 | . 17 | 6 | 7 | . 10 | . 09 |
|  |  | Max | 93 | 47 | 95 | . 78 | . 65 | 32 | 89 | . 67 | . 60 | 43 | 94 | . 68 | . 62 |
|  |  | Min | 38 | 10 | 49 | . 39 | . 20 | 8 | 44 | . 39 | . 18 | 29 | 78 | . 42 | . 39 |
| Language | TS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 69 | 26 | 72 | . 34 | . 26 | 32 | 74 | . 30 | . 24 | 31 | 76 | . 38 | . 32 |
|  |  | StdDev | 22 | 4 | 13 | . 15 | . 15 | 11 | 8 | . 12 | . 12 | 7 | 4 | . 11 | . 12 |
|  |  | Max | 95 | 31 | 82 | . 59 | . 49 | 47 | 86 | . 48 | . 42 | 42 | 81 | . 53 | . 49 |

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| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
|  |  | Min | 32 | 21 | 49 | . 21 | . 13 | 21 | 66 | . 17 | . 11 | 24 | 72 | . 27 | . 19 |
|  | PS1 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 65 | 30 | 73 | . 36 | . 25 | 33 | 75 | . 38 | . 26 | 39 | 85 | . 31 | . 26 |
|  |  | StdDev | 17 | 18 | 16 | . 19 | . 19 | 11 | 16 | . 24 | . 17 | 12 | 6 | . 20 | . 18 |
|  |  | Max | 82 | 57 | 94 | . 70 | . 57 | 54 | 100 | . 66 | . 55 | 51 | 95 | . 52 | . 45 |
|  |  | Min | 35 | 12 | 56 | . 14 | . 08 | 20 | 56 | . 02 | . 04 | 23 | 79 | -. 01 | -. 06 |
|  | PS2 | N | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |  | Mean | 62 | 34 | 83 | . 53 | . 40 | 33 | 81 | . 41 | . 28 | 37 | 81 | . 39 | . 30 |
|  |  | StdDev | 21 | 9 | 6 | . 15 | . 14 | 8 | 12 | . 17 | . 15 | 9 | 6 | . 09 | . 07 |
|  |  | Max | 87 | 49 | 92 | . 68 | . 62 | 41 | 97 | . 56 | . 48 | 50 | 88 | . 49 | . 35 |
|  |  | Min | 34 | 25 | 78 | . 28 | . 22 | 22 | 64 | . 14 | . 09 | 24 | 74 | . 23 | . 18 |
|  | TS2 | N | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|  |  | Mean | 67 | 30 | 73 | . 58 | . 38 | 23 | 60 | . 50 | . 28 | 31 | 85 | . 49 | . 43 |
|  |  | StdDev | 20 | 13 | 13 | . 18 | . 21 | 11 | 16 | . 15 | . 15 | 7 | 7 | . 13 | . 11 |
|  |  | Max | 93 | 50 | 95 | . 84 | . 71 | 42 | 84 | . 65 | . 53 | 39 | 93 | . 69 | . 61 |
|  |  | Min | 38 | 18 | 61 | . 41 | . 20 | 13 | 43 | . 32 | . 15 | 21 | 76 | . 37 | . 34 |
| Conventions | TS1 | N | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 |
|  |  | Mean | 69 | 54 | 98 |  | . 21 | 54 | 97 |  | . 18 | 57 | 96 |  | . 30 |
|  |  | StdDev | 22 | 9 | 2 |  | . 16 | 6 | 3 |  | . 08 | 10 | 1 |  | . 12 |
|  |  | Max | 95 | 62 | 100 |  | . 45 | 59 | 100 |  | . 33 | 65 | 97 |  | . 47 |
|  |  | Min | 32 | 41 | 94 |  | . 00 | 45 | 93 |  | . 13 | 38 | 94 |  | . 11 |
|  | PS1 | N | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 |
|  |  | Mean | 65 | 54 | 98 |  | . 16 | 58 | 98 |  | . 23 | 63 | 97 |  | . 18 |

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| Score | Sample ${ }^{\text {a }}$ | Stat | N | Teacher vs. ESC ${ }^{\text {b }}$ |  |  |  | Teacher vs. TR1 ${ }^{\text {b }}$ |  |  |  | ESC vs. TR1 ${ }^{\text {b }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK | EA (\%) | EAA (\%) | COR | WK |
|  |  | StdDev | 17 | 16 | 2 |  | . 09 | 11 | 2 |  | . 17 | 3 | 2 |  | . 14 |
|  |  | Max | 82 | 69 | 100 |  | . 29 | 76 | 100 |  | . 45 | 68 | 98 |  | . 36 |
|  |  | Min | 35 | 25 | 94 |  | . 06 | 42 | 96 |  | -. 01 | 59 | 94 |  | . 05 |
|  | PS2 | N | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 | 6 | 6 |  | 6 |
|  |  | Mean | 62 | 62 | 98 |  | . 29 | 63 | 99 |  | . 24 | 60 | 99 |  | . 26 |
|  |  | StdDev | 21 | 7 | 3 |  | . 15 | 11 | 1 |  | . 11 | 5 | 1 |  | . 15 |
|  |  | Max | 87 | 73 | 100 |  | . 50 | 77 | 100 |  | . 44 | 69 | 100 |  | . 41 |
|  |  | Min | 34 | 56 | 92 |  | . 10 | 47 | 97 |  | . 13 | 57 | 98 |  | . 03 |
|  | TS2 | N | 5 | 5 | 5 |  | 5 | 5 | 5 |  | 5 | 5 | 5 |  | 5 |
|  |  | Mean | 67 | 56 | 98 |  | . 30 | 51 | 96 |  | . 30 | 49 | 98 |  | . 30 |
|  |  | StdDev | 20 | 8 | 4 |  | . 16 | 15 | 3 |  | . 17 | 6 | 2 |  | . 08 |
|  |  | Max | 93 | 65 | 100 |  | . 52 | 68 | 100 |  | . 51 | 55 | 100 |  | . 41 |
|  |  | Min | 38 | 43 | 90 |  | . 11 | 38 | 92 |  | . 09 | 41 | 96 |  | . 21 |

${ }^{\text {a }}$ TS1=Timed Sample 1, PS1=Process Sample 1, PS2=Process Sample 2, TS2=Timed Sample 2.
${ }^{\mathrm{b}}$ EA=Percentage of exact agreement, EAA=Percentage of exact or adjacent agreement, COR=Correlation, WK=Weighted Kappa with quadratic weights.

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## APPENDIX K: SUMMARY OF CORRELATIONS BETWEEN WRITING PILOT AND STAAR WRITING SCORES

The polyserial correlations were calculated between the rating scores and the corresponding spring 2018 STAAR scale scores for each test, score, and rater group. A sample size of at least 30 was required for each calculation. This correlation can serve as an external validity indicator for a rater score.

Students who participated in the Texas Writing Pilot and also completed STAAR writing received a comparison of skill assessment where skills assessed were in alignment. The correlations below are not a performance indicator, but instead identify measurement of skills. It is important to note that the STAAR writing assessment only evaluates one mode of writing while the Texas Writing Pilot evaluates multiple modes of writing.

Polyserial correlation (Drasgow, 1988) is appropriate for the case where one variable is an ordered categorical variable and the other is a continuous variable. Like polychoric correlation, polyserial correlation assumes a continuous variable underlying the categorical variable and the two continuous variables follow a binormal distribution. Polyserial correlation is estimated by the maximum likelihood estimation. If the assumptions hold, polyserial correlation more accurately reflects the association between one ordered categorical variable and one continuous variable, while Pearson correlation tends to underestimate the association. For the sums of the seven portfolio scores, their correlations are Pearson correlations because both variables are considered to be continuous.

The correlations on the total writing samples for the four tests in Figures K1-K4 were plotted to better understand the variations across raters and scores. For grade 4 writing, ESC rater scores had the highest correlations from 0.48 to 0.54 with the STAAR scale scores, and Teacher had the lowest correlations from 0.25 to 0.38 except for Language score. For grade 7 writing, Teacher had the highest correlations from 0.60 to 0.69 , and ESC rater and Trained Rater 1 had similar correlations from 0.48 to 0.56 . For English I, Teacher had the highest correlations from 0.50 to 0.59 , and ESC rater and Trained Rater 1 had similar correlations from 0.45 to 0.51 . For English II, all raters had the similar correlations from 0.41 to 0.50 except for Conventions score where Teacher had the correlation of 0.61 , while ESC rater and Trained Rater 1 had the same correlation of 0.45 . Overall, in grade 4 writing the rating scores had low to medium correlations with the STAAR scale scores, and in the other tests they had medium correlations, which provide some evidence to support the validity of these rating scores.

Figure K1. Correlations between Rating Scores and STAAR Scale Scores on Total Writing Samples: Grade 4 Writing.

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Figure K2. Correlations between Rating Scores and STAAR Scale Scores on Total Writing Samples: Grade 7 Writing.


Figure K3. Correlations between Rating Scores and STAAR Scale Scores on Total Writing Samples: English I.

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Figure K4. Correlations between Rating Scores and STAAR Scale Scores on Total Writing Samples: English II.


## APPENDIX L: CORRELATIONS BETWEEN WRITING PILOT AND STAAR WRITING SCORES

Tables L1-L4 list the correlations for all rating scores and the three raters (Teacher, ESC rater, and Trained Rater 1) on each writing sample (TS1, PS1, PS2, and TS2), each writing genre, each timed writing prompt, and the total writing samples in the four tests, respectively. Within a test, the correlations varied across raters, scores, and sample groups.

Table L1. Correlations between Rating Scores and STAAR Scale Scores: Grade 4 Writing

| Score | Sample ${ }^{\text {a }}$ | N | Teacher | ESC | TR1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Organization | TS1 | 132 | . 23 | . 53 | . 49 |
|  | PS1 | 129 | . 27 | . 50 | . 48 |
|  | PS2 | 131 | . 25 | . 37 | . 26 |
|  | TS2 | 132 | . 41 | . 57 | . 47 |
|  | Expository | 246 | . 25 | . 43 | . 40 |
|  | Personal Narrative_TS | 264 | . 26 | . 54 | . 47 |
|  | 1000022 | 146 | . 23 | . 54 | . 42 |
|  | 1000023 | 42 | . 32 | . 57 | . 50 |
|  | 1000024 | 76 | . 25 | . 49 | . 55 |
|  | Total | 524 | . 25 | . 48 | . 43 |
| Content | TS1 | 132 | . 26 | . 49 | . 50 |
|  | PS1 | 129 | . 30 | . 49 | . 40 |
|  | PS2 | 131 | . 24 | . 40 | . 26 |
|  | TS2 | 132 | . 42 | . 51 | . 40 |
|  | Expository | 246 | . 25 | . 45 | . 34 |
|  | Personal Narrative_TS | 264 | . 29 | . 49 | . 44 |
|  | 1000022 | 146 | . 25 | . 49 | . 42 |
|  | 1000023 | 42 | . 31 | . 52 | . 44 |
|  | 1000024 | 76 | . 33 | . 46 | . 44 |
|  | Total | 524 | . 27 | . 46 | . 38 |
| Language | TS1 | 132 | . 40 | . 55 | . 51 |
|  | PS1 | 129 | . 51 | . 51 | . 38 |
|  | PS2 | 131 | . 44 | . 46 | . 29 |
|  | TS2 | 132 | . 58 | . 58 | . 47 |
|  | Expository | 246 | . 44 | . 49 | . 35 |
|  | Personal Narrative_TS | 264 | . 43 | . 55 | . 48 |
|  | 1000022 | 146 | . 44 | . 54 | . 47 |
|  | 1000023 | 42 | . 58 | . 59 | . 55 |


| Score | Sample $^{\text {a }}$ | N | Teacher | ESC | TR1 |
| :---: | :--- | ---: | ---: | ---: | :---: |
|  | 1000024 | 76 | .35 | .54 | .45 |
|  | Total | 524 | .43 | .51 | .41 |
|  | TS1 | 132 | .56 | .63 | .57 |
|  | PS1 | 129 | .36 | .54 | .40 |
|  | PS2 | 131 | .24 | .45 | .20 |
|  | TS2 | 132 | .42 | .58 | .46 |
|  | Personal Narrative_TS | 246 | .31 | .50 | .32 |
|  | 1000022 | 264 | .45 | .59 | .50 |
|  | 1000023 | 146 | .43 | .52 | .52 |
|  | 1000024 | 42 | .53 | .60 | .43 |
|  | Total | 76 | .44 | .68 | .46 |

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; The numbers are the prompt IDs of timed samples.

Table L2. Correlations between Rating Scores and STAAR Scale Scores: Grade 7 Writing

| Score | Sample ${ }^{\text {a }}$ | N | Teacher | ESC | TR1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Organization | TS1 | 142 | . 68 | . 63 | . 55 |
|  | PS1 | 93 | . 50 | . 39 | . 52 |
|  | PS2 | 47 | . 65 | . 51 | . 52 |
|  | Expository | 52 | . 68 | . 43 | . 60 |
|  | Personal Narrative | 61 | . 50 | . 54 | . 47 |
|  | Expository_TS | 164 | . 67 | . 60 | . 53 |
|  | 1000029 | 108 | . 70 | . 66 | . 51 |
|  | 1000031 | 42 | . 55 | . 44 | . 61 |
|  | Total | 304 | . 60 | . 51 | . 52 |
| Content | TS1 | 142 | . 67 | . 59 | . 54 |
|  | PS1 | 93 | . 50 | . 40 | . 56 |
|  | PS2 | 47 | . 65 | . 52 | . 55 |
|  | Expository | 52 | . 68 | . 36 | . 64 |
|  | Personal Narrative | 61 | . 47 | . 61 | . 54 |
|  | Expository_TS | 164 | . 66 | . 57 | . 51 |
|  | 1000029 | 108 | . 70 | . 60 | . 48 |
|  | 1000031 | 42 | . 55 | . 51 | . 57 |


| Score | Sample ${ }^{\text {a }}$ | N | Teacher | ESC | TR1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | 304 | . 60 | . 50 | . 52 |
| Language | TS1 | 142 | . 74 | . 62 | . 57 |
|  | PS1 | 93 | . 60 | . 36 | . 58 |
|  | PS2 | 47 | . 74 | . 49 | . 61 |
|  | Expository | 52 | . 66 | . 38 | . 66 |
|  | Personal Narrative | 61 | . 61 | . 57 | . 56 |
|  | Expository_TS | 164 | . 70 | . 61 | . 54 |
|  | 1000029 | 108 | . 72 | . 64 | . 51 |
|  | 1000031 | 42 | . 63 | . 60 | . 61 |
|  | Total | 304 | . 66 | . 51 | . 56 |
| Conventions | TS1 | 142 | . 73 | . 65 | . 53 |
|  | PS1 | 93 | . 58 | . 26 | . 48 |
|  | PS2 | 47 | . 76 | . 50 | . 59 |
|  | Expository | 52 | . 67 | . 15 | . 50 |
|  | Personal Narrative | 61 | . 70 | . 58 | . 57 |
|  | Expository_TS | 164 | . 74 | . 61 | . 52 |
|  | 1000029 | 108 | . 72 | . 60 | . 54 |
|  | 1000031 | 42 | . 76 | . 65 | . 55 |
|  | Total | 304 | . 69 | . 48 | . 52 |

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix " $T$ " ", while a genre of process sample does not have such a suffix; The numbers are the prompt IDs of timed samples.

Table L3. Correlations between Rating Scores and STAAR Scale Scores: English I

| Score | Sample $^{\mathrm{a}}$ | N | Teacher | ESC | TR1 |
| :---: | :--- | ---: | :---: | :---: | :---: |
|  | TS1 | 666 | .50 | .47 | .47 |
|  | PS1 | 282 | .60 | .49 | .50 |
|  | PS2 | 584 | .56 | .47 | .49 |
|  | TS2 | 666 | .61 | .51 | .42 |
|  | Analytic | 109 | .31 | .37 | .43 |
|  | Expository | Other | 301 | .60 | .52 |
|  | Personal Narrative | 58 | .60 | .61 | .47 |
|  | Persuasive | 314 | .59 | .40 | .43 |
|  | Expository_TS | 1332 | .54 | .49 | .45 |


| Score | Sample ${ }^{\text {a }}$ | N | Teacher | ESC | TR1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1000032 | 388 | . 43 | . 44 | . 43 |
|  | 1000033 | 408 | . 61 | . 49 | . 42 |
|  | 21000001 | 536 | . 56 | . 52 | . 48 |
|  | Total | 2198 | . 54 | . 48 | . 46 |
|  | TS1 | 666 | . 51 | . 47 | . 48 |
|  | PS1 | 282 | . 59 | . 48 | . 52 |
|  | PS2 | 584 | . 50 | . 49 | . 49 |
|  | TS2 | 666 | . 51 | . 45 | . 41 |
|  | Analytic | 109 | . 30 | . 37 | . 46 |
|  | Expository | 301 | . 60 | . 53 | . 56 |
|  | Other | 58 | . 60 | . 70 | . 41 |
|  | Personal Narrative | 314 | . 53 | . 41 | . 41 |
|  | Persuasive | 84 | . 38 | . 52 | . 46 |
|  | Expository_TS | 1332 | . 50 | . 46 | . 45 |
|  | 1000032 | 388 | . 49 | . 43 | . 45 |
|  | 1000033 | 408 | . 57 | . 46 | . 42 |
|  | 21000001 | 536 | . 48 | . 49 | . 46 |
|  | Total | 2198 | . 50 | . 47 | . 47 |
|  | TS1 | 666 | . 51 | . 51 | . 50 |
|  | PS1 | 282 | . 61 | . 49 | . 50 |
|  | PS2 | 584 | . 56 | . 48 | . 51 |
|  | TS2 | 666 | . 61 | . 50 | . 45 |
|  | Analytic | 109 | . 39 | . 34 | . 45 |
|  | Expository | 301 | . 60 | . 54 | . 54 |
|  | Other | 58 | . 63 | . 52 | . 41 |
| Language | Personal Narrative | 314 | . 56 | . 43 | . 45 |
|  | Persuasive | 84 | . 48 | . 45 | . 44 |
|  | Expository_TS | 1332 | . 55 | . 51 | . 48 |
|  | 1000032 | 388 | . 49 | . 47 | . 47 |
|  | 1000033 | 408 | . 57 | . 50 | . 45 |
|  | 21000001 | 536 | . 58 | . 53 | . 50 |
|  | Total | 2198 | . 55 | . 50 | . 49 |
| Conventions | TS1 | 666 | . 60 | . 49 | . 51 |
|  | PS1 | 282 | . 55 | . 54 | . 53 |


| Score | Sample $^{\mathrm{a}}$ | N | Teacher | ESC | TR1 |
| :---: | :--- | ---: | :---: | :---: | :---: |
|  | PS2 | 584 | .59 | .44 | .51 |
|  | TS2 | 666 | .62 | .51 | .48 |
|  | Analytic | 109 | .41 | .33 | .48 |
|  | Expository | 301 | .54 | .62 | .56 |
|  | Other | 58 | .69 | .33 | .38 |
|  | Personal Narrative | 314 | .60 | .40 | .41 |
|  | Persuasive | 84 | .41 | .39 | .44 |
|  | Expository_TS | 1332 | .59 | .49 | .49 |
|  | 1000032 | 388 | .52 | .40 | .46 |
|  | 1000033 | 408 | .62 | .47 | .51 |
|  | 21000001 | 536 | .62 | .56 | .49 |
|  | Total | 2198 | .59 | .49 | .51 |

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; The numbers are the prompt IDs of timed samples.

Table L4. Correlations between Rating Scores and STAAR Scale Scores: English II

| Score | Sample $^{\mathrm{a}}$ | N | Teacher | ESC | TR1 |
| :---: | :--- | ---: | :---: | :---: | :---: |
|  | TS1 | 463 | .43 | .48 | .48 |
|  | PS1 | 426 | .38 | .35 | .35 |
|  | PS2 | 423 | .45 | .34 | .47 |
|  | TS2 | 383 | .53 | .52 | .43 |
|  | Analytic | 160 | .54 | .36 | .50 |
|  | Expository | 182 | .51 | .42 | .50 |
|  | Other | 156 | .22 | .15 | .22 |
|  | Personal Narrative | 98 | .42 | .40 | .25 |
|  | Persuasive | 253 | .46 | .31 | .30 |
|  | Persuasive_TS | 846 | .47 | .49 | .45 |
|  | 1000035 | 281 | .50 | .48 | .50 |
|  | 1000036 | 302 | .44 | .44 | .41 |
|  | 1000037 | 263 | .46 | .55 | .43 |
|  | Total | 1695 | .44 | .42 | .42 |
| Content | TS1 | 463 | .41 | .47 | .49 |
|  | PS1 | 426 | .42 | .37 | .35 |
|  | PS2 | 423 | .43 | .44 | .50 |


| Score | Sample ${ }^{\text {a }}$ | N | Teacher | ESC | TR1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS2 | 383 | . 42 | . 49 | . 44 |
|  | Analytic | 160 | . 68 | . 50 | . 46 |
|  | Expository | 182 | . 57 | . 46 | . 48 |
|  | Other | 156 | . 24 | . 18 | . 21 |
|  | Personal Narrative | 98 | . 46 | . 42 | . 35 |
|  | Persuasive | 253 | . 41 | . 34 | . 33 |
|  | Persuasive_TS | 846 | . 42 | . 47 | . 46 |
|  | 1000035 | 281 | . 43 | . 43 | . 49 |
|  | 1000036 | 302 | . 39 | . 43 | . 41 |
|  | 1000037 | 263 | . 41 | . 55 | . 48 |
|  | Total | 1695 | . 41 | . 43 | . 43 |
|  | TS1 | 463 | . 50 | . 51 | . 50 |
|  | PS1 | 426 | . 49 | . 37 | . 41 |
|  | PS2 | 423 | . 56 | . 43 | . 54 |
|  | TS2 | 383 | . 50 | . 55 | . 51 |
|  | Analytic | 160 | . 71 | . 54 | . 52 |
|  | Expository | 182 | . 64 | . 48 | . 56 |
|  | Other | 156 | . 32 | . 17 | . 28 |
|  | Personal Narrative | 98 | . 55 | . 43 | . 36 |
|  | Persuasive | 253 | . 46 | . 31 | . 39 |
|  | Persuasive_TS | 846 | . 50 | . 52 | . 49 |
|  | 1000035 | 281 | . 49 | . 49 | . 56 |
|  | 1000036 | 302 | . 49 | . 49 | . 42 |
|  | 1000037 | 263 | . 50 | . 59 | . 49 |
|  | Total | 1695 | . 50 | . 46 | . 47 |
| Conventions | TS1 | 463 | . 57 | . 56 | . 52 |
|  | PS1 | 426 | . 54 | . 28 | . 39 |
|  | PS2 | 423 | . 67 | . 42 | . 48 |
|  | TS2 | 383 | . 66 | . 55 | . 51 |
|  | Analytic | 160 | . 75 | . 40 | . 40 |
|  | Expository | 182 | . 72 | . 36 | . 54 |
|  | Other | 156 | . 21 | . 20 | . 35 |
|  | Personal Narrative | 98 | . 52 | . 51 | . 40 |
|  | Persuasive | 253 | . 51 | . 29 | . 32 |


| Score | Sample $^{\mathrm{a}}$ | N | Teacher | ESC | TR1 |
| :---: | :--- | ---: | :---: | :---: | :---: |
|  | Persuasive_TS | 846 | .61 | .55 | .51 |
|  | 1000035 | 281 | .61 | .54 | .55 |
|  | 1000036 | 302 | .54 | .50 | .45 |
|  | 1000037 | 263 | .64 | .61 | .52 |
|  | Total | 1695 | .61 | .45 | .45 |

${ }^{\text {a }}$ TS1=Timed Sample 1; PS1=Process Sample 1; PS2=Process Sample 2; TS2=Timed Sample 2; A genre of timed sample ends with a suffix "_TS", while a genre of process sample does not have such a suffix; The numbers are the prompt IDs of timed samples.


[^0]:    ${ }^{1}$ Drasgow, F. (1988). Polychoric and polyserial correlations. In L. Kotz, \& N. L. Johnson (Eds.), Encyclopedia of Statistical Sciences. Vol. 7 (pp. 69-74). New York: Wiley.
    ${ }^{2}$ Fleiss, J. L., \& Cohen, J. (1973). The equivalence of weighted kappa and the intraclass correlation coefficient as measures of reliability. Educational and Psychological Measurement, 33, 613-619.

[^1]:    ${ }^{3}$ Drasgow, F. (1988). Polychoric and polyserial correlations. In L. Kotz, \& N. L. Johnson (Eds.), Encyclopedia of Statistical Sciences. Vol. 7 (pp. 69-74). New York: Wiley.
    ${ }^{4}$ Fleiss, J. L., \& Cohen, J. (1973). The equivalence of weighted kappa and the intraclass correlation coefficient as measures of reliability. Educational and Psychological Measurement, 33, 613-619.
    ${ }^{5}$ Cohen, J. (1968). Weighted kappa: Nominal scale agreement with provision for scaled disagreement or partial credit. Psychological Bulletin, 70(4), 213-220.

