



FOR THE ACADEMIC YEAR 2014–2015

A Collaborative Effort of
the Texas Education Agency
and Pearson





Table of Contents

List of Tables.....	.ix
List of Figures	xi
List of Appendices.....	xii
About the Technical Digest	xiii
Chapter 1 Historical Overview of Assessment in Texas	1
Timeline	1
Assessment Provisions in State Law.....	11
Curriculum Guidelines for Assessment	13
TEKS Revisions	13
English Language Proficiency Standards	14
Chapter 2 Building a High-Quality Assessment System	15
Test Development Activities	15
Groups Involved.....	17
Student Assessment Division	17
Pearson.....	17
ETS	17
Tri-Lin.....	17
Lone Star Assessment and Publishing, L.L.C.....	17
Texas Educators	18
Item Development and Review	18
Item Guidelines	18
Item Writers	19
Training	19
Contractor Review	19
TEA Review.....	19
Item-Review Committee	20
Pilot Testing	21
Field Testing and Data Review	21
Field-Test Procedures	21
Data-Review Procedures.....	22
Item Bank	23
Test Construction	23
Security.....	24
The Test Security Supplement and Administration Manuals	25
Online Training	25
14-Point Test Security Plan	25
Security Violations	25
Incident Tracking	26
Light Marks Analysis.....	26
Statistical Analyses.....	27
Quality-Control Procedures	28
Data and Report Processing.....	28
Technical Processing	29
Performance Assessments	30
Scoring Staff.....	31
Distributed Scoring	32
The ePEN System.....	32
Reader Training Process.....	33



Scoring Process	34
Score Reliability and Validity Information	36
Appeals	37
Chapter 3 Standard Technical Processes	39
Overview.....	39
Performance Standards.....	40
Item Analyses.....	41
Scaling	41
Equating	42
Reliability.....	43
Validity.....	43
Measures of Student Progress	44
Sampling	44
Technical Details and Procedures.....	45
Performance Standards.....	45
Item Analyses.....	49
Scaling	51
Equating	56
Reliability.....	62
Validity.....	67
Measures of Student Progress	70
Sampling	73
Chapter 4 State of Texas Assessments of Academic Readiness (STAAR).....	77
Overview.....	77
STAAR	79
STAAR Spanish	79
STAAR L	79
STAAR A.....	80
Participation Requirements	80
Testing Requirements for Graduation	82
Test Development.....	82
Item Development Approach for STAAR Spanish.....	84
Spanish–English STAAR Alignment	84
Training.....	85
District and Campus Coordinator Manual and Test Administrator Manuals.....	85
Test Administrations.....	86
The Online Test Delivery System	88
Make-up Testing.....	89
Out-of-District Testing.....	89
Out-of-School Testing.....	89
Educational Materials Required for Testing	90
Testing Accommodations	91
Accommodations for Students with Disabilities	91
Students with Visual Impairments.....	92
Dyslexia Accommodations for Reading Assessment	92
Oral/Signed Administration	93
STAAR A Embedded Accommodations and Accessibility Features	94
Linguistic Accommodations.....	95
Student Success Initiative	97
Scores and Reports	98

Description of Scores.....	98
Report Formats.....	99
Use of Test Results.....	100
Parent Brochures.....	100
Released Tests.....	101
Item Analysis Reports.....	101
Performance Standards.....	102
Performance Levels and Policy Definitions.....	102
Standard-Setting Process for STAAR.....	103
Standard-Setting Committees.....	106
Phase-in of Performance Standards.....	107
Outcome of Standard Setting	108
Review of Performance Standards	109
Scaling.....	109
Reporting Scales	109
Cumulative Score for Graduation.....	112
Equating.....	112
Overview	112
Pre-Equating	113
Post-Equating	113
Field-Test Equating	114
Comparability Analyses	114
Reliability	115
Internal Consistency	115
Classical Standard Error of Measurement (SEM)	116
Conditional Standard Error of Measurement (CSEM)	116
Classification Accuracy.....	116
Validity	116
Evidence Based on Test Content	117
Evidence Based on Response Processes	118
Evidence Based on Internal Structure	122
Evidence Based on Relationships to Other Variables	122
Evidence Based on the Consequences of Testing.....	123
Intended Interpretations and Uses of STAAR Test Scores	123
Measures of Student Progress.....	124
2013-2014 Progress Measure Updates	125
2014-2015 Progress Measure Updates	127
Progress Classifications	127
Classification Exceptions.....	129
Results	129
STAAR On-Track Measure.....	129
English Language Learner Progress Measure.....	130
Sampling.....	133
Test Results.....	133
Chapter 5 STAAR Alternate 2.....	135
Overview.....	135



Participation Requirements	136
Testing Requirements for Graduation	137
Test Development.....	137
Assessment Content	137
STAAR Alternate Redesign.....	138
Assessment Item Criteria.....	138
Review of Items.....	139
Training.....	140
Test Administrations.....	140
Administration Procedures.....	141
Testing Accommodations.....	142
Student Success Initiative	143
Scores and Reports	144
Scoring STAAR Alternate 2 Assessments	144
Description of Scores	144
Report Formats	145
Use of Test Results	145
Parent Brochure.....	145
Performance Standards	146
Performance Levels and Policy Definitions	146
Standard-Setting Process for STAAR Alternate 2.....	147
Standard-Setting Committees.....	149
Outcome of Standard Setting	149
Scaling.....	150
Reporting Scales.....	150
Equating.....	152
Overview.....	152
Base Test Review.....	152
Live Calibrations.....	153
Field-Test Equating.....	153
Reliability	153
Internal Consistency.....	154
Classical Standard Error of Measurement.....	154
Conditional Standard Error of Measurement.....	155
Classification Accuracy.....	155
Validity	155
Evidence Based on Test Content	155
Evidence Based on Response Processes	156
Evidence Based on Internal Structure	156
Evidence Based on Relationships to Other Variables	157
Evidence Based on Consequences of Testing.....	158
Measures of Student Progress	158
Sampling.....	158
Test Results.....	159

Chapter 6 Texas English Language Proficiency Assessment System (TELPAS)**161**



Overview.....	161
Participation Requirements	162
Committee Decisions.....	162
Newly Enrolled ELLs—Holistically Rated Domains	162
Test Development.....	163
TELPAS Reading Assessments for Grades 2–12.....	163
TELPAS Holistically Rated Assessments	163
Training.....	164
Test Administrations.....	165
Scores and Reports	166
Language Domain Scores	169
TELPAS Comprehension and Composite Scores.....	169
Report Formats	171
Use of Test Results	171
Parent Brochures	171
Audits.....	172
Performance Standards	172
Scaling.....	173
Reporting Scales	174
Equating.....	175
Pre-Equating	175
Post-Equating.....	175
Field-Test Equating	175
Reliability	176
Internal Consistency	176
Classical Standard Error of Measurement (SEM)	176
Conditional Standard Error of Measurement (CSEM)	176
Classification Accuracy.....	177
Interrater Reliability.....	177
Validity	177
Evidence Based on Test Content	177
Evidence Based on Response Processes	180
Evidence Based on Internal Structure	181
Evidence Based on Relationships to Other Variables	182
Evidence Based on Consequences of Testing.....	186
Sampling.....	186
Test Results.....	186
Chapter 7 Texas Assessment of Knowledge and Skills (TAKS)	189
Overview.....	189
TAKS.....	190
Testing Requirements for Graduation	190
Test Development.....	191
Item Development	191
Training.....	191
2015 Directions for District Coordinators, Campus Coordinators, and Test Administrators.....	191

Test Administrations.....	192
Overview	192
Online Testing	192
The Online Test Delivery System	192
Make-up Testing.....	193
Educational Materials Required for Testing	193
Testing Accommodations	194
Accommodations for Students with Disabilities	194
Accommodations Resources	195
Scores and Reports	195
Description of Scores	195
Report Formats	196
Use of Test Results	196
Parent Brochures	196
Performance Standards	197
Performance Level Descriptors	197
Standard Setting for TAKS	197
Scaling.....	198
Reporting Scales	198
Equating.....	199
Pre-Equating	199
Post-Equating.....	199
Field-Test Equating	199
Comparability Analyses	199
Reliability	200
Validity	200
Measures of Student Progress.....	201
Sampling.....	201
Test Results.....	201
Chapter 8 Resources	203
Bibliography	205



List of Tables

- Table 2.1. Item Review Guidelines
Table 2.2. Comparison of Readiness and Supporting Standards
Table 3.1. The Nine-Step STAAR Standard-Setting Process
Table 3.2. Classification Accuracy for STAAR Level II
Table 4.1. 2014–2015 STAAR Assessments
Table 4.2. ELL Participation in STAAR
Table 4.3. STAAR A Eligibility Requirements
Table 4.4. STAAR Assessments Administered in 2014–2015
Table 4.5. Features Available in STAAR A
Table 4.6. Allowable Linguistic Accommodations for ELLs Taking STAAR
Table 4.7. Overview of the STAAR EOC Standard-Setting Process
Table 4.8. Overview of the STAAR 3–8 Standard-Setting Process
Table 4.9. STAAR 3–8 Performance Standards Applied in 2014–2015
Table 4.10. STAAR EOC Performance Standards Applied in 2014–2015
Table 4.11. Horizontal Scaling Constants for STAAR 3–8
Table 4.12. Horizontal Scaling Constants for STAAR EOC
Table 4.13. Vertical Scale Score Transformation and Scaling Constants for STAAR 3–8 Reading
Table 4.14. Summary of Reader Agreement (Reliability) for 2015 STAAR
Table 4.15. Summary of Validity Packet Results for 2015 STAAR
Table 4.16. 2015 STAAR Progress Measure Targets
Table 4.17. ELL Progress Measure Plans
Table 4.18. STAAR Spring 2015 Pass Rates (at the Level II Phase-in 1 Standard)
Table 5.1. 2014–2015 STAAR Alternate 2 Assessments
Table 5.2. Students Tested in 2014–2015 STAAR Alternate 2 Assessments
Table 5.3. Overview of the STAAR Alternate 2 Standard-Setting Process
Table 5.4. STAAR Alternate 2 Performance Standards
Table 5.5. Horizontal Scaling Constants for STAAR Alternate 2
Table 5.6. STAAR Alternate 2 Spring 2015 Pass Rates
Table 6.1. Grade Clusters for 2–12 Reading
Table 6.2. TELPAS Assessments Administered in 2014–2015
Table 6.3. Weights of the Language Domains in TELPAS Composite Ratings
Table 6.4. Approved Raw and Scale Score Cut Scores from 2013 TELPAS Reading Proficiency Level Standards Review
Table 6.5. Vertical Scale Score Linking Constants for TELPAS Reading Tests
Table 6.6. Staged Linguistic Accommodation Test Design
Table 6.7. 2015 STAAR Grades 3–8 Reading*, English I, and English II Performance by TELPAS Reading Proficiency Level for Students Who Participated in Both Assessments
Table 6.8. 2015 STAAR Grades 4 and 7 Writing*, English I, and English II Performance by TELPAS Writing Proficiency Rating for Students Who Participated in Both Assessments

- Table 6.9. Percentage* of Students in Each of the TELPAS Composite Proficiency Levels in 2015
- Table 7.1. 2014–2015 TAKS Assessments
- Table 7.2. TAKS Assessments Administered in 2014-2015
- Table 7.3. 2014–2015 TAKS Online Test Administrations
- Table 7.4. Horizontal Scaling Constants for TAKS
- Table 8.1. Quick Reference to Online Resources



List of Figures

- Figure 2.1. Test Development Process
- Figure 3.1. Relationship between Raw Scores and Scale Scores at the Performance Standards
- Figure 3.2. Critical Elements of the Evidence-Based Standard-Setting Approach
- Figure 3.3. Three Stages of the Equating Process
- Figure 3.4. TELPAS Common-Item Post-Equating Design
- Figure 3.5. STAAR Common-Item Post-Equating Design
- Figure 3.6. STAAR Incomplete Data Matrix for Common-Item Sets
- Figure 4.1. STAAR Development and Implementation Schedule
- Figure 4.2. Accommodations for Students with Disabilities
- Figure 5.1. STAAR Alternate 2 Allowable Accommodations
- Figure 6.1. Sample Calculation of Composite Results



List of Appendices

Appendix A

Quality Control System (QCS)

Appendix B

STAAR Statistical Tables

Appendix C

STAAR Alternate 2 Statistical Tables

Appendix D

STAAR TELPAS Statistical Tables



About the Technical Digest

The *Technical Digest* is designed to provide information to Texas testing coordinators, educators, researchers, and interested citizens about the development procedures and technical attributes of the state-mandated assessment program. This digest does not include all the information available about the assessment program in Texas.

Additional information is available on the [Texas Education Agency \(TEA\) Student Assessment Division website](#). For materials not found on the website or for questions concerning information in this digest, contact the TEA Student Assessment Division at 512-463-9536 or by email at Student.Assessment@tea.texas.gov.

The *Technical Digest* for 2014–2015 is designed primarily as a web-based document. The entire text of the *Technical Digest* along with the documents referenced and the technical reports in support of information in the *Technical Digest* are available on [TEA's Student Assessment Division website](#).