

**Report of the State Board of Education
Committee of the Full Board
November 17, 2020**

The State Board of Education Committee of the Full Board met at 9:07 a.m. on Tuesday, November 17, 2020, in the State Board of Education Room, #1-104, of the William B. Travis Building, 1701 N. Congress Avenue, Austin, Texas. Attendance was noted as follows:

Present: Keven Ellis, chair; Lawrence A. Allen, Jr.; Donna Bahorich; Barbara Cargill; Ruben Cortez, Jr.; Aicha Davis; Pat Hardy; Pam Little; Tom Maynard; Sue Melton-Malone; Ken Mercer; Georgina C. Pérez; Marisa B. Perez-Diaz; Matt Robinson; Marty Rowley

Public Testimony

The Committee of the Full Board heard public testimony on agenda items #1, #2, and #3. Information regarding the individuals who presented public testimony is included in the discussion of that item.

DISCUSSION ITEMS

- 1. Public Hearing on Proposed New 19 TAC Chapter 115, Texas Essential Knowledge and Skills for Health Education, Subchapter A, Elementary, §§115.11-115.17, Subchapter B, Middle School, §§115.25-115.28, and Subchapter C, High School, §§115.37-115.40**
(Board agenda page I-1)

Public testimony was provided by the following individuals:

NAME: Jules Mandel
AFFILIATION: Texas Freedom Network

NAME: Lori Kuykendall
AFFILIATION: Medical Institute for Sexual Health

NAME: Karen Krajcer
AFFILIATION: Self

NAME: Anna Nguyen
AFFILIATION: Self

NAME: Suzi Nelson
AFFILIATION: Self

NAME: Jessica Soukup
AFFILIATION: Self

NAME: Tonya Waite
AFFILIATION: Self

NAME: Suzanne Kerns
AFFILIATION: Self

NAME: Sarah Anderson
AFFILIATION: Self

NAME: Mary Elizabeth Castle
AFFILIATION: Texas Values

NAME: Dan Bailey
AFFILIATION: Just say YES

NAME: Deborah Simmons
AFFILIATION: Self

NAME: Marilyn Henderson
AFFILIATION: Self

NAME: Janice Weaver
AFFILIATION: South Texas Pregnancy Care Center

NAME: Candace Russell
AFFILIATION: Self

NAME: Christy Baca
AFFILIATION: Self

NAME: Marcia Lamb
AFFILIATION: Self

NAME: Shelly Skeen
AFFILIATION: Lambda Legal

NAME: Katherine Goldey
AFFILIATION: Self

NAME: Rebecca Jowers
AFFILIATION: Poiema Foundation

NAME: Caryl Ayala
AFFILIATION: Self

NAME: Lorie Meynig
AFFILIATION: Self

NAME: Ricardo Martinez
AFFILIATION: Equality Texas

NAME: Geoffrey Carlisle
AFFILIATION: Self

NAME: Mary Anne Mosack
AFFILIATION: Ascend

NAME: Janet Teal
AFFILIATION: Self

NAME: Ruth York
AFFILIATION: Self

NAME: Ellen Klipp
AFFILIATION: Self

NAME: Connie Wyatt-Coleman
AFFILIATION: Wise Choices PRC

NAME: Heather Frederick
AFFILIATION: Texas GSA Network

NAME: Angela Lutts
AFFILIATION: National Association of Social Workers, Texas Chapter

NAME: Lawrence Hulsey
AFFILIATION: Self

NAME: Rebecca Hardy
AFFILIATION: Texans for Vaccine Choice

NAME: Rev. Angela Williams
AFFILIATION: Just Texas

NAME: Audrey Werner
AFFILIATION: Self

NAME: Lee Spiller
AFFILIATION: Citizens Commission on Human Rights-TX

NAME: Irene Ericksen
AFFILIATION: The Institute for Research & Evaluation

NAME: Lauren DeWitt
AFFILIATION: Self

NAME: Diana Richards
AFFILIATION: Self

NAME: Rosann Mariappuram
AFFILIATION: Jane's Due Process

NAME: Madeleine Croll
AFFILIATION: GENTEx

NAME: Karole Fedrick
AFFILIATION: Self

NAME: Lydia Ayala
AFFILIATION: Self

NAME: Becky Baker
AFFILIATION: Self

NAME: Bob Tupin
AFFILIATION: Self

NAME: Ginger Bloomer
AFFILIATION: Self

NAME: Shannon Jaquette
AFFILIATION: Texas Catholic Conference of Bishops

NAME: Rachana Chhin
AFFILIATION: Texas Catholic Conference of Bishops

NAME: Susie Roselle
AFFILIATION: Self

2. **Public Hearing on Proposed New 19 TAC Chapter 116, Texas Essential Knowledge and Skills for Physical Education, Subchapter A, Elementary, §§116.11-116.17, Subchapter B, Middle School, §§116.25-116.28, and Subchapter C, High School, §§116.61-116.64**
(Board agenda page I-3)

No public testimony was provided during this item.

3. **Public Hearing on Proposed New 19 TAC Chapter 112, Texas Essential Knowledge and Skills for Science, Subchapter C, High School, §§112.41-112.45**
(Board agenda page I-5)

Public testimony was provided by the following individuals:

NAME: Juli Berwald
AFFILIATION: Self

NAME: Suzi Nelson
AFFILIATION: Self

NAME: Christopher Garcia
AFFILIATION: Self

NAME: Carisa Lopez
AFFILIATION: Texas Freedom Network

NAME: Michael Clayton
AFFILIATION: Self

NAME: Geoffrey Carlisle
AFFILIATION: Self

NAME: Olivia Harris
AFFILIATION: Self

NAME: Ann Mulvihill
AFFILIATION: Texas Science Educator Leadership Association

NAME: Abigail Milam
AFFILIATION: Self

NAME: Tony Halstead
AFFILIATION: Self

NAME: Susan Barnum
AFFILIATION: Self

NAME: David Bonnette
AFFILIATION: Self

NAME: Maxine Jenks
AFFILIATION: Self

NAME: Eliza Epstein
AFFILIATION: Self

NAME: Gregory Alvord
AFFILIATION: Self

NAME: Linda Cook
AFFILIATION: Self

NAME: John Geissman
AFFILIATION: Self

NAME: Myriah Gossett
AFFILIATION: Self

NAME: Selena Wilson
AFFILIATION: DFW Science Supervisors (MASS)

NAME: Ashley Carter
AFFILIATION: DFW Science Supervisors (MASS)

NAME: Deyadira Arellano
AFFILIATION: Self

NAME: Sharon Mineo
AFFILIATION: Self

NAME: Crystal Lantrip
AFFILIATION: Self

NAME: Hadia Noor
AFFILIATION: Self

NAME: Leila Cornelius
AFFILIATION: Self

NAME: Robert Martinez
AFFILIATION: Self

NAME: Kenric Davies
AFFILIATION: TX Section of American Association of Physics Teachers

NAME: Jennifer Meyer
AFFILIATION: Texas Science Teachers Association

NAME: Daniela De Urioste
AFFILIATION: Self

NAME: Marilyn Kortum
AFFILIATION: Self

NAME: Shane Woods
AFFILIATION: Self

NAME: Kathlene Sheets
AFFILIATION: Self

NAME: Adrienne Abrahamson
AFFILIATION: Self

NAME: Nalleli Hidalgo
AFFILIATION: TX Environmental Justice Advocacy Services

NAME: Sandra West
AFFILIATION: Self

NAME: Ashley-Meggan Bowie
AFFILIATION: Self

NAME: Jennifer Bernabo
AFFILIATION: Self

NAME: Kathy Shannon
AFFILIATION: Petroleum Museum

NAME: Jason Isaac
AFFILIATION: Self

NAME: Stephanie Thomas
AFFILIATION: Self

NAME: Marlene Plua
AFFILIATION: Self

NAME: Taren Hodges
AFFILIATION: Self

NAME: Michael Link
AFFILIATION: Self

ACTION ITEMS

- 4. Proposed New 19 TAC Chapter 116, Texas Essential Knowledge and Skills for Physical Education, Subchapter A, Elementary, §§116.11-116.17, Subchapter B, Middle School, §§116.25-116.28, and Subchapter C, High School, §§116.61-116.64
(Second Reading and Final Adoption)
(Board agenda page I-7)**

Monica Martinez, associate commissioner for standards and support services, explained that the content advisors provided responses to public comments that were received on the proposed revisions to the physical education TEKS for kindergarten through high school.

MOTION AND VOTE: *It was moved by Mr. Maynard, seconded by Mr. Rowley, and carried unanimously to recommend that the State Board of Education approve for second reading and final adoption proposed new 19 TAC Chapter 116, Texas Essential Knowledge and Skills for Physical Education, Subchapter A, Elementary, §§116.11-116.17, Subchapter B, Middle School, §§116.25-116.28, and Subchapter C, High School, §§116.61-116.64.*

(Mr. Allen was absent for the vote.)

- 5. Proposed New 19 TAC Chapter 115, Texas Essential Knowledge and Skills for Health Education, Subchapter A, Elementary, §§115.11-115.17, Subchapter B, Middle School, §§115.25-115.28, and Subchapter C, High School, §§115.37-115.40
(Second Reading and Final Adoption)
(Board agenda page I-58)**

The committee postponed consideration of this item until Wednesday, November 18, 2020.

6. **Proposed New 19 TAC Chapter 112, Texas Essential Knowledge and Skills for Science, Subchapter C, High School, §§112.41-112.45 (Second Reading and Final Adoption)**
(Board agenda page I-116)

Ms. Martinez explained that staff had distributed the cumulative public comments received for this item and that the science content advisors had been convened to review the comments and provide consensus feedback on public comments that were received.

MOTION: *It was moved by Mr. Rowley and seconded by Mrs. Melton-Malone to recommend that the State Board of Education approve for second reading and final adoption proposed new 19 TAC Chapter 112, Texas Essential Knowledge and Skills for Science, Subchapter C, High School, §§112.41, Implementation of Texas Essential Knowledge and Skills for Science, High School, Adopted 2020; 112.42, Biology (One Credit), Adopted 2020; 112.43, Chemistry (One Credit), Adopted 2020; 112.44, Integrated Physics and Chemistry (One Credit), Adopted 2020; and 112.45, Physics (One Credit), Adopted 2020; and*

Make an affirmative finding that immediate adoption of 19 TAC Chapter 112, Texas Essential Knowledge and Skills for Science, Subchapter C, High School, §§112.41, Implementation of Texas Essential Knowledge and Skills for Science, High School, Adopted 2020; 112.42, Biology (One Credit), Adopted 2020; 112.43, Chemistry (One Credit), Adopted 2020; 112.44, Integrated Physics and Chemistry (One Credit), Adopted 2020; and 112.45, Physics (One Credit), Adopted 2020, is necessary and shall have an effective date of 20 days after filing as adopted with the Texas Register.

MOTION AND VOTE: *It was moved by Mrs. Cargill, seconded by Mr. Rowley, and carried to recommend that the State Board of Education amend §112.42(c)(6)(A) to read:*

“explain the importance of the cell cycle to the growth of organisms, including an overview of the stages of the cell cycle and deoxyribonucleic acid (DNA) replication models”

MOTION AND VOTE: *It was moved by Mrs. Cargill, seconded by Mr. Rowley, and carried to recommend that the State Board of Education amend §112.42(c)(7)(D) to read:*

“discuss the importance ~~describe the function~~ of molecular technologies such as PCR, gel electrophoresis, and gene modification that are applicable in current research and engineering practices”

MOTION AND VOTE: *It was moved by Mrs. Cargill, seconded by Mr. Rowley, and carried to recommend that the State Board of Education amend §112.42(c)(10)(D) to read:*

“analyze evolutionary mechanisms other than natural selection, including genetic drift, gene flow, mutation, and genetic recombination, and their effect on the gene pool of a population”

MOTION AND VOTE: *It was moved Mrs. Cargill, seconded by Mr. Rowley, and carried to recommend that the State Board of Education amend §112.42(c)(11)(A) to read:*

“explain how matter is conserved and energy is transferred during photosynthesis and cellular respiration using models, including the chemical equations for these processes;”

MOTION AND VOTE: *It was moved by Mrs. Cargill, seconded by Mr. Rowley, and carried to recommend that the State Board of Education amend §112.42(c)(11)(B) to read:*

“~~identify and~~ investigate and explain the role of enzymes in facilitating cellular processes”

MOTION AND VOTE: *It was moved by Mrs. Cargill, seconded by Ms. Hardy, and carried to recommend that the State Board of Education amend §112.42(c)(12)(B) to read:*

“explain how the interactions that occur among systems that perform the functions of transport, reproduction, and response in plants are facilitated by their structures.”

MOTION AND VOTE: *It was moved by Mrs. Cargill, seconded by Ms. Hardy, and carried to recommend that the State Board of Education amend §112.43(c)(11)(C) to read:*

“investigate how factors that influence solid and gas solubilities are influenced by such as temperature using solubility curves and how rates of dissolution are influenced by such as temperature, agitation, and surface area;”

MOTION AND VOTE: *It was moved by Mrs. Cargill, seconded by Ms. Hardy, and carried to recommend that the State Board of Education amend §112.43(c)(11)(D) to read:*

“investigate the general rules regarding solubility and predict the solubility of the products of a double replacement reaction;”

The board requested that staff correct the spelling of “Van de Graaff” in student expectation §112.45(c)(6)(C) as a technical edit.

MOTION: *It was moved by Mr. Rowley and seconded by Mrs. Little to recommend that the State Board of Education strike §112.45(c)(9)(A)–(D) and add new §112.45(c)(8)(H) to read:*

“(H) investigate and understand how quantum physics applies to the behavior of waves, including mass-energy equivalence, the photoelectric effect, and the dual nature of light.”

MOTION AND VOTE: *It was moved by Mrs. Little, seconded by Mr. Maynard, and carried to insert “and emission spectra” after “photoelectric effect.”*

MOTION AND VOTE: *It was moved by Mr. Rowley and carried to change “understand” to “explain.”*

VOTE: *A vote was taken on the motion to recommend that the State Board of Education strike §112.45 (c)(9)(A)–(D) and add §112.45(c)(8)(H) as amended to read:*

“(H) investigate and explain how quantum physics applies to the behavior of waves including mass energy equivalence, the photoelectric effect and emission spectra, and the dual nature of light.”

The motion failed.

MOTION AND VOTE: *It was moved by Mrs. Cargill, seconded by Ms. Hardy, and carried to recommend that the State Board of Education amend §§112.42(c)(4), 112.43(c)(4)(C), 112.44(c)(4)(C), and 112.45(c)(4)(C) to read:*

“research and explore resources such as museums, libraries, professional organizations, private companies, online platforms and mentors employed in a STEM field in order to investigate connections between grade-level appropriate science concepts and science, technology, engineering, and mathematics (STEM) careers.”

MOTION AND VOTE: *It was moved by Ms. Perez-Diaz and seconded by Mr. Cortez to recommend that the State Board of Education postpone second reading and final adoption of proposed new 19 TAC §§112.41-112.45 to the January 2021 SBOE meeting. The motion failed.*

VOTE: *A vote was taken on the original motion to recommend that the State Board of Education approve for second reading and final adoption proposed new 19 TAC Chapter 112, Texas Essential Knowledge and Skills for Science, Subchapter C, High School, §§112.41, Implementation of Texas Essential Knowledge and Skills for Science, High School, Adopted 2020; 112.42, Biology (One Credit), Adopted 2020; 112.43, Chemistry (One Credit), Adopted 2020; 112.44, Integrated Physics and Chemistry (One Credit), Adopted 2020; and 112.45, Physics (One Credit), Adopted 2020, as amended; and*

Make an affirmative finding that immediate adoption of 19 TAC Chapter 112, Texas Essential Knowledge and Skills for Science, Subchapter C, High School, §§112.41, Implementation of Texas Essential Knowledge and Skills for Science, High School, Adopted 2020; 112.42, Biology (One Credit), Adopted 2020; 112.43, Chemistry (One Credit), Adopted 2020; 112.44, Integrated Physics and Chemistry (One Credit), Adopted 2020; and 112.45, Physics (One Credit), Adopted 2020, is necessary and shall have an effective date of 20 days after filing as adopted with the Texas Register. The motion carried.

Dr. Ellis adjourned the meeting at 6:08 p.m.