



CTE, Physical Education, and Health Education Standards Review Process and Proposed Changes

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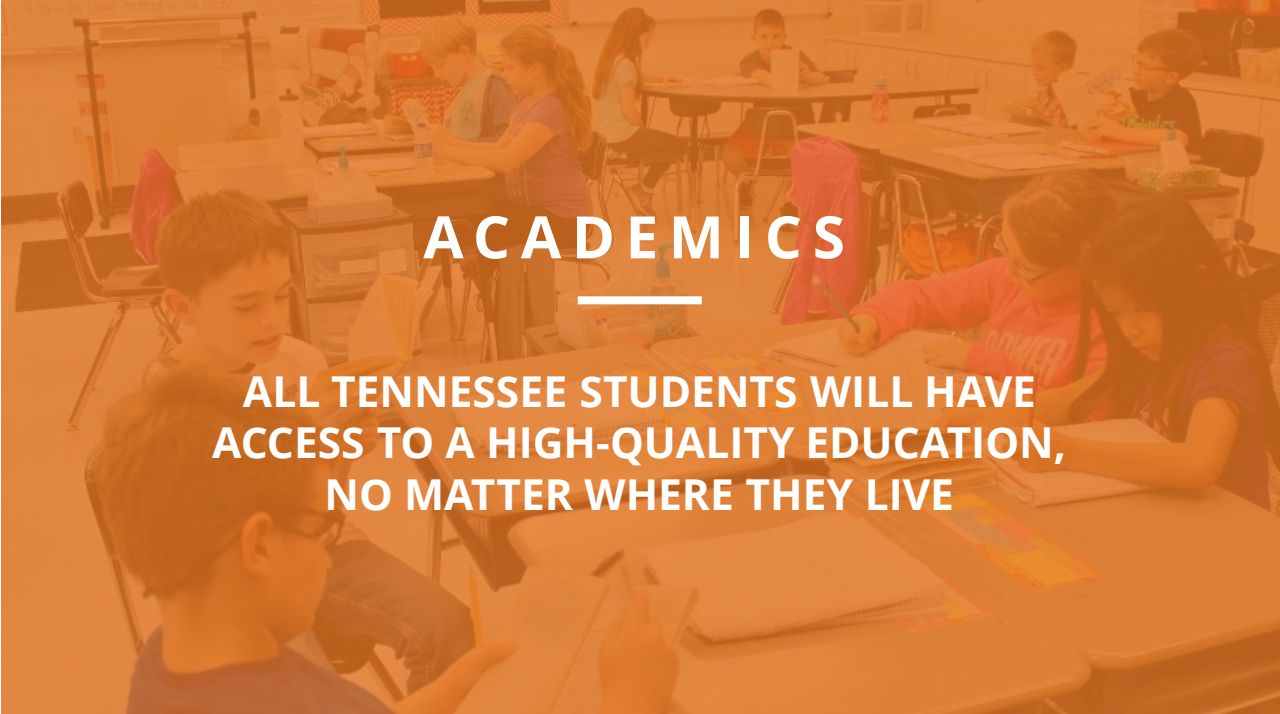
*Senior Director of Coordinated
School Health*





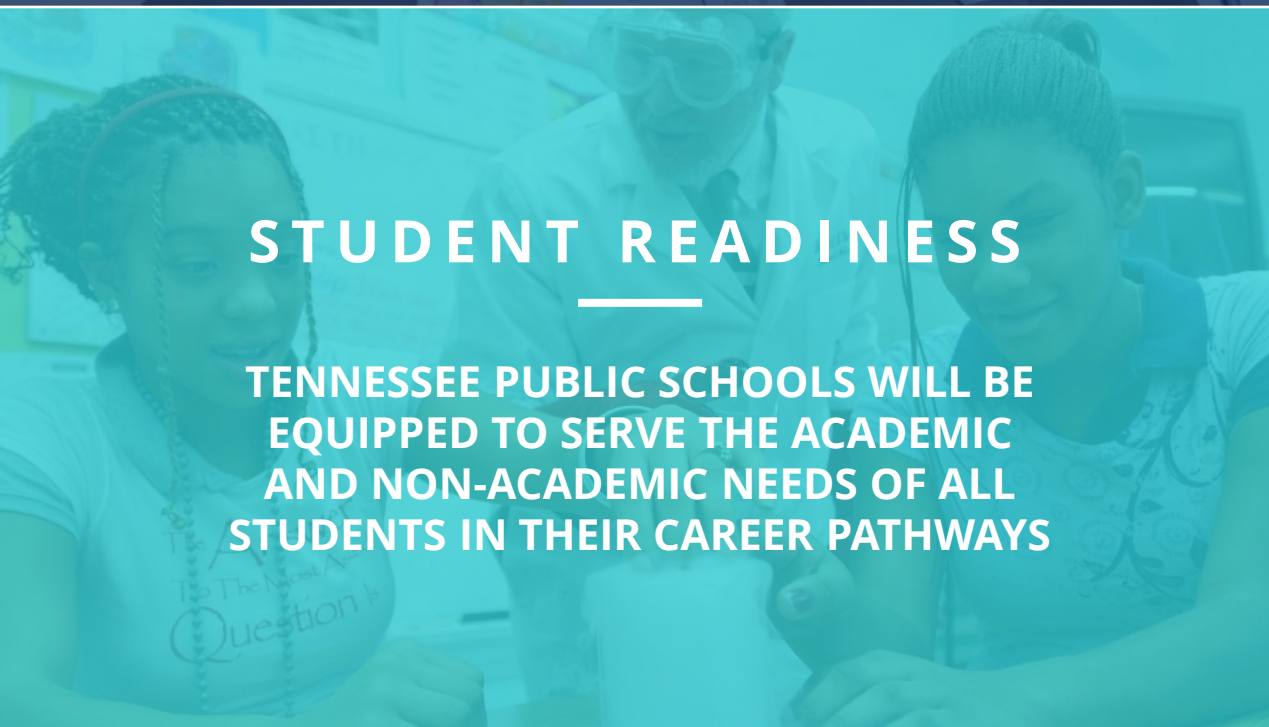
BEST FOR ALL

We will set all students on a path to success.



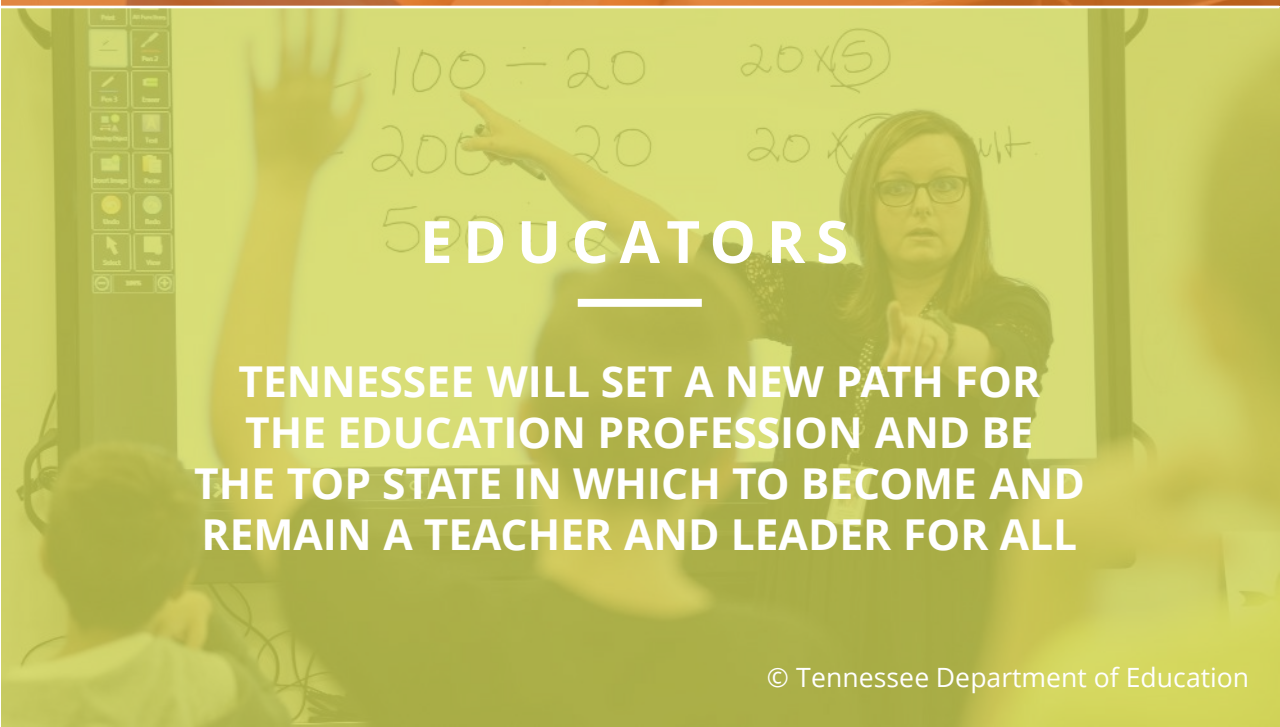
ACADEMICS

ALL TENNESSEE STUDENTS WILL HAVE ACCESS TO A HIGH-QUALITY EDUCATION, NO MATTER WHERE THEY LIVE



STUDENT READINESS

TENNESSEE PUBLIC SCHOOLS WILL BE EQUIPPED TO SERVE THE ACADEMIC AND NON-ACADEMIC NEEDS OF ALL STUDENTS IN THEIR CAREER PATHWAYS



EDUCATORS

TENNESSEE WILL SET A NEW PATH FOR THE EDUCATION PROFESSION AND BE THE TOP STATE IN WHICH TO BECOME AND REMAIN A TEACHER AND LEADER FOR ALL



Agenda

- CTE Standards
 - Comprehensive Career Cluster Review Process
 - Stakeholder Engagement
 - Proposed Changes for CTE Standards

- P.E. Standards
 - Stakeholder Engagement
 - Overview of Revisions (K-5, 6-8, 9-12)

- Health Education Standards
 - Stakeholder Engagement
 - Overview of Revisions (K-5, 6-8, 9-12)

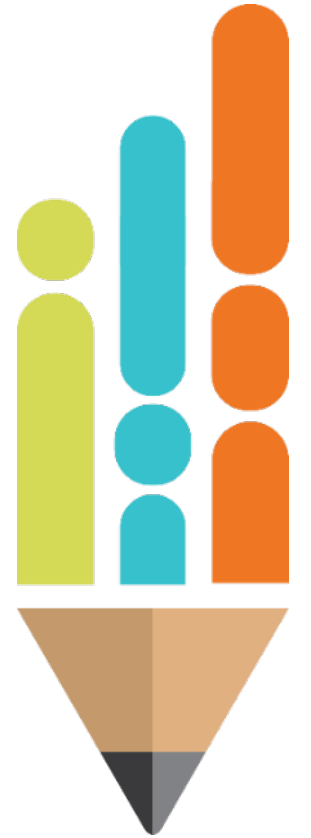


Comprehensive Career Cluster Review Process

Comprehensive Career Cluster Review Process

▪ Three Year Rotation Review of Career Clusters

- Advisory Council
- Review of Course Standards
- Research Labor Market Data
- Gather Feedback from Educators and Industry Partners
- Compile Feedback
- Draft Course Revisions
- Present C3R to CTE Leadership
- Revise, add, and/or delete course standards
- Present to SBE



Stakeholder Engagement

Career and Technical Education



Stakeholder Engagement

- Stakeholders
 - Industry Partners
 - Secondary Educators
 - Postsecondary Educators

- Industry Feedback
 - Academic, technical, employability skills needed
 - Gaps and/or deficits of skills

- Course Standards Feedback
 - Updated standards

Advanced Manufacturing

Stakeholder	Title	Organization
Andy Afflick	Division Welding Manager	Arcosa
Keith Auvile	Plant Manager	A.O. Smith
Randy Blessing	Workforce Manager	A.O. Smith
Jeff Frazier	Principal RCAM Coordinator	Eastman Chemical
Kevin Gay	Executive	Mueller Industries
Brandi Stroecker	Director	Tennessee STEM Innovation Network
Ann Thompson	Workforce Development Manager	Ford
Tony Wirth	President	Skyline Manufacturing
Katelyn West	Senior Specialist, Human Resources	DENSO
Gerald Austin	Teacher	Greenville Technology Center



Advanced Manufacturing

Stakeholder	Title	Organization
David Burgess	Industrial Maintenance Faculty	TCAT Chattanooga
Todd Cantrell	Teacher	Dekalb High School
Candice Clark-Smith	Teacher	Hamilton County Schools
David Keylon	Teacher	PIE Center
John Lee	Industry Training Coordinator	NC3 – TCAT
Dale Long	Teacher	Spring Hill High School
Ahad Nasab	Faculty and Department Head	UT Chattanooga
Franklin (Tom) Shipwash	Teacher	Halls High School
Derek Swiger	Teacher	Tullahoma High School



Arts, A/V Technology, & Communication

Stakeholder	Title	Organization
Nic Dugger	Founder	TNDV
Daphne Douglas	Teacher, OLNTT Trainer	Powell High School
Dr. Rick Cottle	Associate Professor	Middle Tennessee State University
Rose Fries	Instructor	TCAT Memphis
Katie Lovette	Associate Professor/Program Coordinator	Pellissippi State Community College
Thomas Melton	Coordinator, Video Productions	Nashville State Community College
Dr. Hannah Upole	Assistant Professor	Tennessee Tech University



Agriculture, Food, & Natural Resources

Stakeholder	Title	Organization
Emily Buck	Agriculture Markets Producer	RFD TV
Louis Buck	Strategic Plan Facilitator, Former Assistant Commissioner of Agriculture	Self-Employed
John Cain	Human Resource Officer	Tennessee Farmers Cooperative
Jade Clark	Director, Value Chain Ventures	AgLaunch Initiative
Ryan Inman	State FFA Director	Tennessee Department of Agriculture
Scott Holmes	Regional Vice President	Farm Credit Mid-America
Rhey Houston	Vice President and Branch Manager	Retired from Stower Dec 2021
Eric Mayberry	President	Tennessee Farm Bureau Federation
Carol McDonald	Assistant Commissioner	TN Department of Agriculture
Stena Meadows	East Tennessee FFA Coordinator	Tennessee Department of Agriculture
Peter Nelson	President / CEO	Ag Innovations Development Group LLC
Herbie Adams	CTE Director	Johnson County Schools
Cody Ayers	Agriculture Teacher	Unaka High School
Thomas Broyles	Associate Professor	TSU Extension Service
Tera Bunch	Agricultural Department Head	Walters State Community College
Sam Brown	Teacher/CTE Director	Alvin C. York Institute



Agriculture, Food, & Natural Resources

Stakeholder	Title	Organization
Wade Dunaway	Agriculture Teacher	Lebanon High School
Josh Eason	Agriculture Teacher	Scotts Hill High School
John Fugate	Agriculture Teacher	Union County High School
Hailey Gates	Agriculture Teacher	Hendersonville High School
Tyler Grandberry	Agricultural Leadership, Education, and Communications	The University of Tennessee Knoxville
Joe Green	Agriculture Teacher	McEwen High School
Tommy Green	Agriculture Teacher	Page Middle School
Ashton Hayes	Agriculture Teacher	North Cumberland Middle School
Trevor Higgins	Agriculture Teacher	Cannon County High School
Sarah Hunter	Agriculture Teacher	South Cumberland Middle School
Joey Mehlhorn	Professor, Agricultural Economic	University of Tennessee Martin
James Pearson	Agriculture Teacher	Jeter Middle School
Mark Revis	CTE Director	Carter County
Christopher Stripling	Agricultural Department Head	University of Tennessee Knoxville
Terry Stubblefield	Agriculture Teacher	White County Middle School
Cody Vannoy	Agriculture Teacher	Beech High School



Business Management & Administration

Stakeholder	Title	Organization
Michael Brown	Owner	M&M Productions
John Doerge	Corporate Citizenship/Human Resources	Deloitte
David Ford	Sales Director	AT&T
Parker Harris	CEO and Administrator	Baptist Memorial Hospital - Tipton
Catherine Hawkins	Human Resources Business Partner	HCA Healthcare
Michelle McKissack	Sole Proprietor	Michelle's
Cayla O'Leary	Executive Director	The Economic Club of Nashville
Carrin Smith	Human Resources Manager	Valmont Utilities
W.T. Bailey	Director	Tipton County
Denetria Jimerson	Business Teacher	Southwind High School
Debbie Mackey	HRM Master's Program Director and Intern Coordinator	University of Tennessee - Knoxville
Rachel Ralph	Contract Recruiter	Aegis Sciences Corporation
Linda Williams	Business Teacher	Cordova High School



Health Science

Stakeholder	Title	Organization
Patty Lane	Director	Rural Health Association of Tennessee
Charles Moseley	Imaging	Ballad Health
Kathy Bullen	Director, Practical Nursing Program	TCAT Elizabethton
McKenzie Highsmith	Pharmacy Professor	East Tennessee State University
Amy Holder	Dean of Allied Health	Motlow State Community College
Erik Jesse	EMS Director	Volunteer State Community College
Ann Lawson	Paramedic Instructor	Roane State
Adrienne Mayo	Health Science Teacher	Metro Nashville Public Schools
Mia Moore	Health Science Teacher	Cordova High School



Proposed Changes for CTE Standards



PROPOSED CHANGES

Advanced Manufacturing

▪ Industrial Maintenance Technology

- Added standards on safety, measurement, and additive manufacturing
- Revised standard on student project
- Removed standards relating to plant manager work, production rate, and manufacturing process

▪ Machining Technology

- Added standards on safety, measurement, and additive manufacturing
- Revised standard on student project
- Removed standards relating to plant manager work, production rate, and manufacturing process
- Revised standard to replace verniers with dial caliper in measurement



PROPOSED CHANGES

Advanced Manufacturing

Mechatronics

- Added standards on safety, measurement, and additive manufacturing
- Revised standard on student project
- Removed standards relating to plant manager work, production rate, and manufacturing process
- Added standards related to physical computing

Welding

- Added standards on safety, measurement, and additive manufacturing
- Revised standard on student project
- Removed standards relating to plant manager work, production rate, and manufacturing process
- Revised standard related to aluminum conducting heat



PROPOSED CHANGES

Agriculture, Food & Natural Resources

Agribusiness

- Revised standards to include consumer debt, loan calculation, and risk management
- Included a stronger focus on the spreadsheet functions to analyze business records and reports

Agriculture, Engineering, Industrial, and Mechanical Systems

- Increased content focus on current tools and equipment
- Added standards dealing with installation and repair of solar and battery stored energy and equipment
- Added standards addressing low voltage wiring as related sensors and electrically operated equipment



PROPOSED CHANGES

Agriculture, Food & Natural Resources

Meat Science

- New program of study with new courses
 - **Level 2: *Meat Science I***
 - Focuses on careers, regulations, principles of animal science, business concepts, and biotechnology
 - **Level 3 – *Meat Science II***
 - Focuses on food processing, food safety, sanitation, preservation, food chemistry, product packaging and labeling, and product marketing
 - **Level 4 – *Meat Science III***
 - Focuses on the processing and evaluation of red meat, trends, and consumer issues

Foundational Supervised Agricultural Education (SAE) II

- New course
 - Provides an additional level of work-based learning in agriculture



PROPOSED CHANGES

Agriculture, Food & Natural Resources

Elective Courses

- Geographic Information Systems (GIS)
 - Simplified & streamlined wording

Middle School Courses

- Exploring Agriculture Education
 - New course recommended for Grade 6
 - Districts requested to expand early middle grades agriculture education
 - Introductory middle school agriculture courses
- Introduction to Agricultural Education
 - Name change
 - Revised standards for Grade 7
- Introduction to Agricultural Sciences
 - Revised standards for Grade 8



PROPOSED CHANGES

Arts A/V Technology & Communications

Fashion Design

- Revised standard on capstone project
- Standard now reflects a limitation of the number of garments required for the students to create to ensure a more obtainable goal



PROPOSED CHANGES

Business Management & Administration

Business Management

- Business Communications
 - Updated **Desktop Publishing** section to reflect current terminology
 - Updated **Oral Communication** section to simplify standards
 - Updated **Meetings** section to reflect both virtual and in-person meetings
- Business Management
 - Simplified and streamlined wording
- Business Entrepreneurship Practicum
 - Simplified and streamlined wording
 - Updated **Business Proposal** section by combining and simplifying standards
- Virtual Enterprise International
 - This is a vendor course. The concepts of the course can be part of the existing practicum course for schools/districts that wish to purchase the subscriptions and continue to use the vendor



PROPOSED CHANGES

Business Management & Administration

Health Services Administration

- Simplified and streamlined wording through out
- Removed the “how” pieces of the standards to allow for more flexibility

Elective Courses

- American Business Legal Systems
 - This is an elective course
 - Updated format and removed performance tasks
 - Consolidated branches of government standard
- Business Economics
 - This is an elective course
 - Updated an online safety standard that was outdated



PROPOSED CHANGES

Business Management & Administration

Office Management

- Computer Applications
 - Moved to middle school
- Principles of Office Applications
 - New course
 - Higher level standards of Computer Applications
 - Standards reflect cloud computing and app versus desktop software
 - Standards reflect MOS certification requirements
- Advanced Computer Applications
 - Retired in lieu of new Advanced Office Applications
- Advanced Office Applications
 - New Course
 - Standards reflect updates to technology
 - Standards are equal to expert level of MOS exams



PROPOSED CHANGES

Business Management & Administration

Human Resource Management

- Human Resource Management
 - Propose to retire program
 - No enrollment in two years

Middle School Courses

- Keyboarding Fundamentals
 - Updated concepts from Keyboarding in a new course
- Exploring Business and Marketing
 - New course
 - Focuses on foundational skills, broad exploration, and middle school FBLA
- Computer Applications
 - Moved to middle school
 - Removed database section



PROPOSED CHANGES

Health Science

Behavioral Health

- New courses
 - Behavioral Health
 - Behavioral Health Practicum
 - Large growth and demand in this industry
 - Standards reflect treatment for health industry, substance abuse, suicide prevention, and overall well-being of society



Standards Review

Physical Education

Stakeholder Engagement

- Review was led by Heather Piergies, Physical Education/Physical Activity Coordinator, Tennessee Department of Education. Committee members were selected to represent active physical education teachers, Coordinated School Health (CSH) coordinators, and higher education professionals preparing future physical educators.
- Committee represented all three grand regions, nine congressional districts, and included a recent Tennessee Association for Health, Physical Education, Recreation, and Dance (TAHPERD) Physical Education Teacher of the Year and a member who contributed to the 2016 review.
- Communication to all physical educators and CSH coordinators statewide was made last summer to extend an invitation to serve on the committee and to provide feedback.
- A session was held at the 2022 TAHPERD conference to gather feedback on current standards.





Grades K-5

- Prioritized optimizing clarity for teachers to observe and assess students.
- Expanded some standards to include multiple domains.
- Large focus on accessibility and developmental appropriateness.
- Mastery of all standards is dependent on students meeting two or three days a week for a minimum of 30 minutes per class.
- Modifications will be necessary if students meet less than two times or more than three times a week.
- While standards are grade specific, some skills, when developmentally appropriate, may be introduced as exploratory tasks in an earlier grade.



Grades 6-8

- Reordered to be grouped by game classification and/or activity type, listed in order of ease of skill acquisition
- Rewritten to pair psychomotor/skill outcome with an appropriate cognitive outcome
- Grade-level benchmarks changed from “6, 7, 8” to “6, 7, & 8”
 - Teachers statewide see these grades in P.E. the most inconsistently
 - Grade 6 is the initial heavy transition from foundational skills
 - Grades 7 & 8 are designed to expand skill application and elevate critical thinking elements
 - Game classifications make it easy for teachers who see students 6-8 year-round with enhanced verbs and autonomy of the application within game classifications
- Mastery of all standards is dependent on number of class meetings per year. Modifications may be necessary
- Standards do not need to be taught in the order presented, however, sequencing of the four game types (target, striking/fielding, net/wall, and invasion) are listed in order of increasing difficulty and complexity regarding designing skill practice and skill acquisition





Grades 9-12

- Includes appropriate language updates to better align with changes made in grades 6-8
- Added game classifications as appropriate
- Added “tactics” with strategies as appropriate
- Expanded and elevated verbs in the cognitive domain
- Standards do not need to be taught in the order presented and the component and subcomponent numbers are only for organization and identification
- The standard is the action knowledge or behavior expected, e.g., FPA 11. “Design a personal fitness plan based on the FITT principle, i.e., Frequency, Intensity, Time, Type”
- Unique to Grades 9-12 Standards is “Component Extension”. Component extensions are ideas to further challenge students in a particular subcomponent and are optional teaching ideas

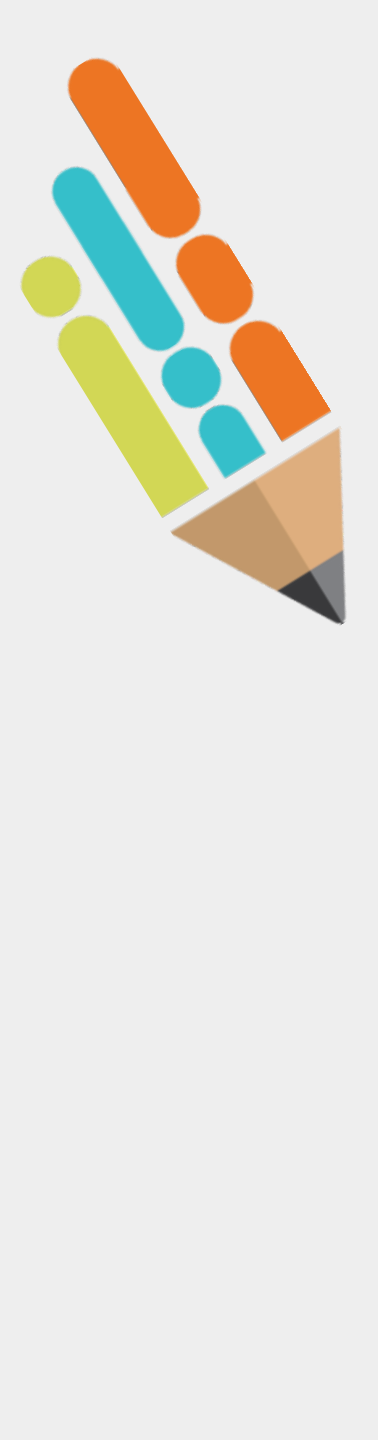


Standards Review

Health Education

Stakeholder Engagement

- Review was led by Mark Bloodworth, Data & Health Education Coordinator, Tennessee Department of Education
- Committee members were selected to represent active health education and Lifetime Wellness teachers, Coordinated School Health (CSH) coordinators, school counselors, and higher education professionals preparing future health education teachers
- Committee represented all eight regional Centers of Regional Excellence (CORE)
- Communication to CSH coordinators statewide was made last summer to extend an invitation to district and school staff to serve on the committee and to provide feedback
- A session was held at the 2023 CSH annual institute to gather feedback on current standards





Grades K-5

- Revisions were made to better address the developmental levels of elementary students
- K-5 standards now include vaping prevention, where appropriate, in the Safety component and Hazardous Substances subcomponent
- Two new subcomponents were added to the Safety component, Passenger Safety and Personal Safety, and some existing standards were redistributed to these new subcomponent areas, respectively
- Personal Safety standards support Erin’s Law which focuses on child sexual abuse prevention, including such abuse which may occur in the child’s home





Grades 6-8

- A new subcomponent, General Health, was added to the Personal Wellness component with the addition of ten new standards
- New standards were added to other Personal Wellness subcomponent areas such as Nutrition, Physical Activity and Fitness, and Disease Prevention
- The new Nutrition standards focus on information accuracy and claims, the new Physical Activity and Fitness standards focus on increased physical activity, and the new Disease Prevention standards focus on chronic diseases





Grades 6-8

- Two new subcomponents, Vehicle Occupant Safety and Water Safety, were added to the Safety & Prevention component. The Vehicle Occupant Safety subcomponent focuses on the importance of using seat belts and best practices while in personal vehicles, public transportation, and rideshare. The Water Safety subcomponent focuses on reducing the risk of injuries in and around water and what to do in a water emergency
- New standards were added to other Safety & Prevention subcomponent areas such as Prevention and Technology Safety
- The new Prevention standards focus on bicycle and pedestrian safety, and weapons, and the new Technology and Safety standards focus on harmful media effects, addiction to technology, and influences





Grades 6-8

- A new subcomponent, Relationships, was added to the Human Growth and Development component with the addition of ten new standards. These standards expand upon the K-5 standards supporting Erin’s Law through identifying the types of child abuse, child sexual abuse, and human trafficking
- New standards were added to the Pregnancy and Reproduction subcomponent of Human Growth and Development component which focus on identifying a trusted adult to discuss making good choices





Grades 6-8

- Two new subcomponents, Conflict Resolution and Social Health, were added to the Mental Health, Emotional, and Social Health component. The Conflict Resolution subcomponent focuses on identifying conflict management and resolution strategies. The Social Health subcomponent focuses on examining positive and adverse childhood experiences and how to build resiliency
- New standards were added to the Mental Health subcomponent which focus on identifying signs and symptoms, causes, triggers and health effects of depression, stress, and anxiety





Grades 6-8

- Two new subcomponents, Core Concepts and Refusal & Risk Reduction, were added to the Substance Use and Misuse component
- The Core Concepts subcomponent focuses on appropriate and inappropriate use of medications and substances and identifying the harmful effects of vaping on the body and environment. The Refusal & Risk Reduction subcomponent focuses on recognizing behaviors that may indicate alcohol and drug impairment





Grades 9-12

- Updates were made to be more inclusive of Disease Prevention and Relationships
- A new subcomponent, Disease Prevention, was added to the Personal Wellness component with the addition of five new standards. These standards focus on the importance of preventative health care and how it contributes to overall wellness
- A new subcomponent, Vehicle Driver and Occupant Safety, was added to the First Aid and Safety component with the addition of two new standards. These standards focus on increased potential of injury with high-risk behaviors while operating and occupying a vehicle





Grades 9-12

- New standards were added to the Mental Health component in the Emotional Health subcomponent which focus on identifying ways to develop self-care behaviors and identifying and explaining adverse childhood experiences and in the Mental Health subcomponent which focus on seeking help
- New standards were added to the Substance Use and Abuse component in the Risk Reduction subcomponent which focus on identifying harmful ingredients in e-cigarettes and vaping devices and the health risks associated with vaping
- New standards were added to the Human Growth and Development component in the Relationships subcomponent which focus on how to reduce risks of becoming a victim of abuse and the process to report it and the detection, intervention, prevention, and treatment of human trafficking. New standards on adoption were also added to the Human Growth and Development component in the Sexuality subcomponent on adoption





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