



TEA Math Curriculum Update

TASM Meeting
February 21, 2014

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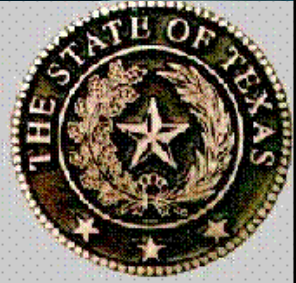
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Agenda



- New Graduation Requirements
- New Course Development
- Project Share
- Instructional Materials
- New TEKS
- PAEMST Update

Foundation High School Program



- HB 5 gives the SBOE decision-making authority in a number of areas related to the new high school graduation requirements.
- The SBOE adopted new rules for the Foundation High School Program on January 31, 2014.
- There have been numerous opportunities for input and feedback throughout the rulemaking process.
- The SBOE is expected to adopt new rules regarding which courses school districts will be required to offer in April 2014.

Foundation High School Program



- The Commissioner has adopted rules to allow fourth year seniors who are unable to complete the requirements of one of the current graduation programs to graduate on the Foundation High School Program in **spring 2014**.

<http://ritter.tea.state.tx.us/rules/tac/chapter074/ch074bb.html>

- The Commissioner has adopted a transition plan to replace the MHSP, RHSP, and DAP with the Foundation High School Program **beginning with the 2014-2015 school year**.
- Students who are in grade 9, 10, or 11 in the 2013-2014 school year must be given a choice to graduate on the MHSP, RHSP, DAP, or Foundation High School Program.

Foundation High School Program



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House Bill 5

This site will provide you with information regarding House Bill 5, 83rd Texas Legislature, Regular Session, 2013.

[Proposal approved by State Board of Education \(SBOE\) for second reading and final adoption at January 2014 meeting \(PDF, 200KB\)](#)

[General Overview of Foundation High School Program--February 2014 \(PDF, 302KB\)](#)

The SBOE is expected to make decisions regarding the new graduation requirements that will be implemented beginning with the **2014-2015 school year** on the following timeline:

- September 17 Public Hearing
- September 18 Discussion of HB 5 Rules
- November First Reading and Filing Authorization
- December Official Public Comment Period
- January Second Reading and Final Adoption

[General Overview Slides of HB 5 with SBOE Decision Points \(PDF, 402KB\)](#)

The State Board of Education will consider the following draft proposed rules for the Foundation High School Program for first reading and filing authorization at the November 2013 meeting. Proposed rules are based on guidance provided by the SBOE at the September 2013 meeting. The SBOE will consider possible revisions to the proposal at the November 2013 meeting.

[Proposed Rules for the Foundation High School Program--Revised 11/12/2013 \(see p. 11\) \(PDF, 651KB\)](#)

[Proposed Rules for the Foundation High School Program--Revised 11/12/2013 \(see pp. 9-10\) \(Word, 52KB\)](#)

Search [Advanced Search](#)

Educator Login
(Internet Explorer required)

How Do I...

- Become a teacher?
- Become my organization's TEAL approver for certification issues?
- Contact my ESC for TEAL/ECOS help?
- Enroll my child in school?
- Find the 2013 state accountability ratings?
- Find AEIS/TAPR Reports
- Find approved educator preparation programs?
- Find curriculum standards (TEKS)?
- Find district-level STAAR results?
- Find graduation requirements?
- Find information about HB 5 graduation requirements?
- Find information about STAAR?
- Find Preliminary Criminal History Evaluation?
- Find released tests?
- Find student assessment information?
- Find the state testing calendar?
- Find TEA payments to districts?
- Find TEAL and ECOS access instructions?
- Send files securely to TEA?

Foundation – Statutory Requirement



Beginning in the 2014-2015 school year, a school district must ensure that each student, on entering ninth grade, indicates in writing an endorsement that the student intends to earn.

A district must permit a student to choose, at any time, to earn an endorsement other than the endorsement the student previously indicated.

Foundation – Statutory Requirement



A student may graduate under the foundation high school program without earning an endorsement if, after the student's sophomore year

- (1) the student and the student's parent or person standing in parental relation are advised by a school counselor of the specific benefits of graduating from high school with one or more endorsements; and
- (2) the student's parent or person standing in parental relation files with a school counselor written permission, on a form adopted by the agency, allowing the student to graduate under the foundation high school program without earning an endorsement.

Foundation – Statutory Requirement



English Language Arts

Four credits

- English I
- English II
- English III
- Advanced English Course

Mathematics

Three credits

- Algebra I
- Geometry
- Advanced Mathematics Course

Science

Three credits

- Biology
- IPC or Advanced Science Course
- Advanced Science Course

Social Studies

Three credits

- U.S. History
- U.S. Government (one-half credit)
- Economics (one-half credit)
- World Geography or World History or Combined World History/World Geography (course not developed yet)

Foundation Advanced Courses

SBOE Rule



Third Mathematics Credit

* Mathematical Models with Applications	AP Calculus BC
* Mathematical Applications in AFNR	AP Computer Science
* Digital Electronics	IB Mathematical Studies Standard Level (SL)
* Robotics Programming and Design	IB Mathematics SL
Algebra II	IB Mathematics Higher Level (HL)
Precalculus	IB Further Mathematics HL
AQR	Engineering Mathematics
Independent Study in Math	Statistics & Risk Management
Discrete Mathematics for Problem Solving	Discrete Mathematics for Computer Science
AP Statistics	locally developed math course or other activity [pursuant to TEC, §28.002(g-1)]
AP Calculus AB	mathematics course endorsed by an IHE [pursuant to TEC, §28.025(b-5)]
Algebraic Reasoning (in development for implementation in 2015-2016)	Statistics (in development for implementation in 2015-2016)

Endorsements – Statutory Requirements



A student may earn an endorsement by successfully completing the following:

- Curriculum requirements for the endorsement
- Four credits in mathematics
- Four credits in science
- Two additional elective credits

Endorsements – Statutory Requirements



Each school district must make available to high school students courses that allow a student to complete the curriculum requirements for at least one endorsement.

A school district that offers only one endorsement curriculum must offer the multidisciplinary studies endorsement curriculum.

A school district defines advanced courses and determines a coherent sequence of courses for an endorsement area, provided that prerequisites are followed.

A course completed as part of the set of four courses needed to satisfy an endorsement requirement may also satisfy a requirement under the Foundation High School Program, including an elective requirement.

Endorsements Advanced Courses

SBOE Rule

Fourth Mathematics Credit to Earn an Endorsement

Algebra II	IB Mathematical Studies Standard Level (SL)
Precalculus	IB Mathematics SL
Advanced Quantitative Reasoning	IB Mathematics Higher Level (HL)
Independent Study in Math	IB Further Mathematics HL
Discrete Mathematics for Problem Solving	Engineering Mathematics
AP Statistics	Statistics & Risk Management
AP Calculus AB	Discrete Mathematics for Computer Science
AP Calculus BC	Locally developed math course or other activity [pursuant to TEC, §28.002(g-1)]
AP Computer Science	Mathematics course endorsed by an IHE [pursuant to TEC, §28.025(b-5)]
Math Models (for the 2014-2015 school year only)	College Prep Math [pursuant to TEC, §28.014]
Algebraic Reasoning (in development for implementation in 2015-2016)	Statistics (in development for implementation in 2015-2016)

*Note: A course on this list may be taken either before or after one of the following courses: Mathematical Models with Applications, Mathematical Applications in Agriculture, Food, and Natural Resources, Digital Electronics, Robotics Programming and Design.

Clarification for Mathematical Models with Applications (MMA)

§74.13(e)(2)(U)

Mathematical Models with Applications, if credit is earned prior to September 1, 2015, or September 1 of a subsequent year in which either of the courses listed in subparagraph (F) or (G) of this paragraph has been developed and approved by the State Board of Education, whichever is later.

MMA can be used to satisfy the fourth math credit for an endorsement during the 2014 – 2015 school year. After the implementation of the new algebraic reasoning and statistics courses, MMA cannot be used to satisfy the fourth math credit for an endorsement. The new courses are expected to be implemented in the 2015 – 2016 school year.

New Graduation Requirements



If you have questions that you would like to see addressed in the FAQ document that is in development, please send them to james.slack@tea.state.tx.us or joann.bilderback@tea.state.tx.us. Please put “FAQ” in the subject line.

New Course Development

- Algebraic Reasoning
- Statistics (TEKS-based course)

These courses are expected to be available for districts to offer beginning in the 2015 – 2016 school year.



Project Share - ESTAR/MSTAR



ESTAR/MSTAR Universal Screener

- Fall – **Window is Closed** (August 26 - October 18)
- Winter – **Extended Window** (January 8 - February 28)
- Spring - April 7 - May 9

Project Share - ESTAR/MSTAR



ESTAR Diagnostic Assessments

- The pilot for the ESTAR diagnostic assessments will be April 28 - June 6. Districts who would like to participate should contact universalscreener@region10.org by April 7.
- The ESTAR diagnostic assessments will be available for the 2015 winter window.

Project Share - ESTAR/MSTAR





MSTAR Universal Screener (REVISED)

- The revised Universal Screener is aligned to the new math TEKS.
- The pilot for the MSTAR Universal Screener (REVISED) will be April 28 - June 6. Districts who would like to participate should contact universalscreener@region10.org by April 7.

Project Share - ESTAR/MSTAR



Training Available

- ESTAR/MSTAR Universal Screener
<http://www.epsilen.com/crs/13205959>
- TEA ESTAR/MSTAR Learning Progressions
<http://www.epsilen.com/crs/14257272> 
- TEA ESTAR and MSTAR Diagnostic Assessments
<http://www.epsilen.com/crs/14257273> 

OnTRACK Update



- The following OnTRACK courses have been updated:
 - OnTRACK Lessons for Algebra I (v3.1)
 - OnTRACK Lessons for Biology (v3.1)
 - OnTRACK Lessons for US History (v3.1)
 - OnTRACK Lessons for English I (v2.0)
 - OnTRACK Lessons for English II (v2.1)

- Teachers can view and explore statewide versions of the lessons for Algebra I at <http://www.epsilon.com/crs/1129990>.

Project Share - TxAIR



Enhancement Features

- “How - To” videos have been added to the left-hand navigation panel of the TxAIR Group. Transcripts are available in the drop box, and closed captioning will be added soon.
- TxAIR Manual is being updated.
- A newly developed TxAIR FAQ document is available in the drop box.

Project Share - TxAIR



epsilen.com

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- Drop Boxes**
- Add File
- Chat
- Take Notes
- 10/31 Webinar
- 10/23 Webinar
- Overview
- Batch Upload
- ClassEnroll...**
- Users
- Help FAQ
- Options
- Exit Group
- Log Out of Epsilen

Group

http://www.epsilen.com/grp/1328318
Welcome JO ANN BILDERBACK to TxAIR

Search for: In Forums

[Exit Group](#) | [Log Out](#)

Drop Boxes

[Add File](#)

Drop Box	Description	Files	Action
TxAIR Video Transcripts	TxAIR transcripts for the How-to videos	2	▼
Batch Upload Template	Excel spreadsheet example for uploading to TxAIR	6	▼
General Files	General File Drop Box	11	▼
Public Files	Use this Dropbox to add files you want shown on this group's public website. All files in this Dropbox will be downloadable by any visitor of this group's public website.	0	▼
TxAIR FAQ	updates of instructions for TxAIR	1	▼
TxAIR Manual	This drop box will contain the most recent TxAIR manual.	1	▼
TxAIR Webinars	Information, such as agendas, for the TxAIR Webinars.	1	▼

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Project Share Support



Account Assistance

- projectsharesupport@ipsi.utexas.edu

Professional Development

- mathtx@esc13.net

OnTRACK Support

- ontrack@ipsi.utexas.edu

Project Share Support



ESTAR/MSTAR

➤ mathtx@esc13.net

➤ 1-855-462-8489



TxAIR



➤ txair@esc4.net

Other Resources



- The interactive math glossary is currently in development.
- Think Through Math is now available for the iPad.
 - New layout
 - Instructional games for grades 3 - 5
 - Webinars for teachers (available at http://texassuccess.org/math/get_to_know_ttm)



Other Resources

Think Through Math

- New content has been developed to address the new TEKS. These lessons are expected to be released in summer 2014.
- A five-step problem-solving process has been added.
- Interactives have been improved to include fill-in-the-blank responses.
- The feedback is geared to focus on the problem solving process.

Other Resources

Think Through Math




25
Welcome, Louis



Place Value - Item 4273

Question 1 of 4

1 HELP
2 HELP
TTM TEACHER
✕



Would you like to work with a teacher?

[CHAT NOW](#)

REPLAY
🔊
CLOSE

The 4 in the thousands place does not represent 10 more than what 4 represents in the hundreds place.

Thousands	Hundreds	Tens	Ones

[NEXT ▶](#)

[MATH HELP](#)

Tools

- calculator
- formulas
- math words

Audio

- ENGLISH
- ESPAÑOL

Other Resources

Think Through Math



231
Welcome, Louis



Place Value - Item 1029

Question 8 of 10

You answered: 245

This answer is not correct. Read the problem again for help.

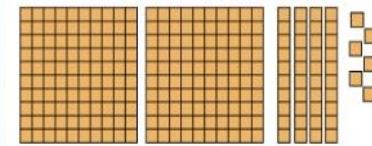
CLOSE

What number is shown by these base ten blocks?



CHECK

246



Key
stands for
10

NEXT

Tools



calculator



formulas



math words

Audio

ENGLISH

ESPAÑOL

Instructional Materials



Proclamation 2015 - High School Math Courses

- Algebra I
- Algebra II
- Geometry
- Precalculus
- Mathematical Models with Applications (MMA)
- Advanced Quantitative Reasoning (AQR)
- Engineering Mathematics
- Mathematical Applications in Agriculture, Food, and Natural Resources
- Statistics and Risk Management
- Robotics Programming and Design

Instructional Materials



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TEXAS EDUCATION AGENCY

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Instructional Materials and Educational Technology

The Instructional Materials and Educational Technology Division provides vision and leadership to transform learning by coordinating the acquisition of state approved instructional materials in various media. The division also implements and supports educational technology to prepare Texas public school students and educators for success in the 21st century.

Latest News

- [Letter of Administrator Addressed, Instructional Materials Allotment – Proclamation 2014](#)
- [Proclamation 2014 Initial Bids and Pricing](#)
- [Proclamation 2014 Adopted Instructional Materials](#)
- [Proclamation 2015 Breakouts](#)
- [Proclamation 2014 Review of Instructional Materials](#)
- [Proclamation 2015](#)
- [Instructional Materials Allotment Information](#)
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General Information

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Instructional Materials Review and Adoption

- [Review and Adoption Process](#)
- [Proclamations](#)
- [Instructional Materials Error Reporting](#)
- [Announcements](#)

Commissioner's List

- [Commissioner's List of Electronic Instructional Materials](#)
- [Commissioner's List of Technological Equipment](#)

Instructional Materials



State Board of Education Weather and Disaster Information

Proclamation 2015

[Proclamation 2015 \(PDF, 1.03MB\)](#)

[Proclamation 2015 Questions and Answers Document \(PDF, 641KB\)](#)

[Proclamation 2015 Publisher Handbook \(PDF, 395KB\)](#)

[Proclamation 2015 Publishing Companies with Materials Under Consideration for Adoption \(PDF, 89KB\)](#)

[Proclamation 2015 Bookouts](#)

Proclamation 2015 Forms

[Statement of Intent to Bid \(SOITB\)\(PDF, 348KB\)](#) Submission deadline December 6, 2013

[Contact Form \(PDF, 406KB\)](#) Submission deadline December 6, 2013

[Complete Description Form \(PDF, 1.65MB\)](#) Submission deadline January 31, 2014

[Affidavit of Authorship or Contribution \(PDF, 1.21 MB\)](#) Submission deadline April 18, 2014

[Certification of Editorial Review \(PDF, 286KB\)](#) Submission deadline August 1, 2014

[Publisher's Conf of Intent to Correct \(PDF, 284KB\)](#) Submission deadline prior to the November 2014 SBOE

[Register of Contacts \(PDF, 293KB\)](#) Submission deadline December 19, 2014

[Publisher's Affidavit of Corrections \(PDF, 292KB\)](#) Submission deadline May 1, 2015

[Form B \(PDF, 270KB\)](#) Submission deadline May 1, 2015

(For detail instructions on completing form B please refer to the Manufacturing Standards and Specifications for Textbooks. To purchase a copy, please [click here](#) to download the MSST order form.)

[Form M \(PDF, 199KB\)](#) Submission deadline May 1, 2015

(For detail instructions on completing form M please refer to the Manufacturing Standards and Specifications for Textbooks. To purchase a copy, please [click here](#) to download the MSST order form.)

State Review Panel

Please save this form to your desktop to fill it out and submit it.

[State Review Panel Nomination Form \(PDF, 488KB\)](#)

Publisher Orientation Meeting, August 27, 2013

[Proclamation 2015 Publisher Orientation Meeting Agenda \(PDF, 69KB\)](#)

New TEKS



- Personal Financial Literacy Course
 - A CTE course will be reviewed in the CTE TEKS revision later this spring.
 - A half-credit elective course will be developed.
- New Courses: Algebraic Reasoning and Statistics
 - These courses are expected to be available for the 2015 – 2016 school year.

New TEKS

K - 8 On-line Training Modules

- The modules are in review.
- Additional modules were developed by the Texas Regional Collaboratives. They are expected to be released by the end of February.



New TEKS



High School Courses

- On-line training modules are in development.
- The training modules are expected to be released in late spring or summer of 2014.
- Side-by-side TEKS comparison documents are in development. They are expected to be released in late spring or early summer of 2014.



The National Science Foundation, under the direction of the White House, approves the Texas candidates as finalists for the national Presidential Awards for Excellence in Math and Science Teaching (PAEMST) award. If chosen as a national winner, the state finalists will receive \$10,000 and an all-expense-paid trip for two to Washington D.C. for ceremonies that include recognition from the President of the United States.



2012 Texas PAEMST Winner



Wendy Hendry has been an educator for 17 years and has spent the last 14 years teaching kindergarten at Bransford Elementary School in the Grapevine-Colleyville Independent School District.

Congratulations Wendy!

Wendy's complete bio can be accessed at https://recognition.paemst.org/finalist_profile/30591.

2014 PAEMST Competition



- Teachers who teach grades K - 6 can apply.
- Nominations must be submitted by April 1, 2014.
- Applications must be submitted by May 1, 2014.
- Information is available at www.paemst.org.

PAEMST Eligibility Requirements



- Teach mathematics or science (including computer science) at the K - 6th grade level in a public or private school
- Hold at least a bachelor's degree from an accredited institution
- Be a full-time employee of the school or school district as determined by state and district policies, and teach K - 12 students at least 50% of the time
- Have at least 5 years of full-time, K - 12 mathematics or science (including computer science) teaching experience prior to the 2013 - 2014 academic school year
- Teach in one of the 50 states or the four U.S. jurisdictions
- Be a U.S. citizen or permanent resident
- Not have received the PAEMST award at the national level in any prior competition or category

2014 PAEMST Review Panel



State Level Review

- The on-line review will be conducted in May.
- The face-to-face review will be in Austin on June 3rd and 4th.
- Applications to serve as a reviewer are now being accepted.

https://landry.tea.state.tx.us/tea_survey/Curriculum/PAEMST/2014%20SCA/2014%20PAEMST%20Selection%20Committee%20Application.htm

PAEMST Sessions at CAMT



- Separate sessions are scheduled for elementary and secondary teachers.
- Toni Norrell from ESC Region 2 will co-present. She is the 2007 Texas Winner for secondary grades.

Contact Information



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