

The background of the slide is a photograph of a school hallway. On the left, a group of students is gathered in a hallway. In the center and right, a wide staircase with metal railings is visible. Several students are walking up and down the stairs. Large windows on the right side of the hallway offer a view of trees and a building outside. A semi-transparent blue rectangular box is overlaid on the center of the image, containing the text.

# G/T Tuesday

Special Populations – Gifted/Talented Education

May 4, 2021

- G/T Information
- Texas Home Learning
- COVID Recovery Instructional Materials Support Initiative
- Question/Answer

## 5/4/2021

## 4/20/2021

### School Reported COVID-19 Cases in Texas Public Schools

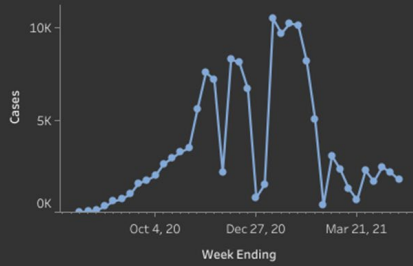
Cumulative positive student cases

**139,899**

Cumulative positive staff cases

**71,542**

New Weekly COVID-19 positive student cases



**3,007,214**

Estimated students on campus as of  
January 29, 2021

New Weekly COVID-19 positive staff cases



**800,078**

2019-2020 Staff Count

On-campus case counts were only reported for weeks in which students were receiving on-campus instruction and activities. Follow this link to see the distribution of start dates across Texas public school systems.  
<https://tea.texas.gov/sites/default/files/covid/SY-20-21-Texas-Public-School-Start-Dates.pdf>

### School Reported COVID-19 Cases in Texas Public Schools

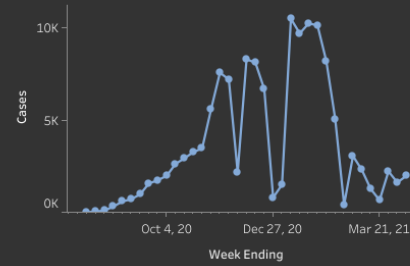
Cumulative positive student cases

**135,382**

Cumulative positive staff cases

**70,522**

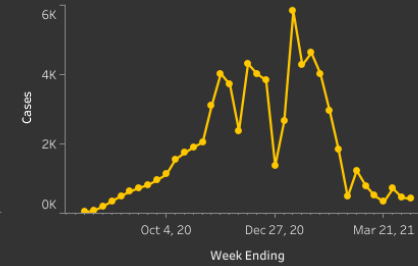
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Estimated students on campus as of  
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<https://tea.texas.gov/sites/default/files/covid/SY-20-21-Texas-Public-School-Start-Dates.pdf>

<https://dshs.texas.gov/coronavirus/schools/texas-education-agency/>

# Wellness Check

## Main Page

- <https://tea.texas.gov/texas-schools/health-safety-discipline/coronavirus-covid-19-support-and-guidance>

## Instructional Continuity Planning

- <https://tea.texas.gov/texas-schools/health-safety-discipline/instructional-continuity-planning>

## SPED and Special Populations

- <https://tea.texas.gov/texas-schools/health-safety-discipline/special-education-and-special-populations>

- In 2021, participants must register in advance for the meetings. The links below are the Spring registration links for the G/T Tuesdays.

Morning Edition @ 9:00 am starting at 1/5/2021

- <https://us02web.zoom.us/meeting/register/tZwsduChpz8jHdYl-0uCzYcOzmQV72ltl261>

Afternoon Edition @ 1:00 pm starting at 1/19/2021

- <https://us02web.zoom.us/meeting/register/tZckdeGppjwqHt0U1UHwtq3kcjkzVzwXd7tM>

- After registering, you will receive a confirmation email containing information about joining the meeting.

**TEA** SY 20-21 Gifted/Talented Education Guidance **STRONG START**  
 August 24, 2020

(512) 463-9000 | disasterinfo@tea.texas.gov | tea.texas.gov/coronavirus

**Gifted/Talented FAQ: Section Topics**

Click on the links below to go directly to that section of the FAQ.

- Program Services
- Identification
- Curriculum and Instruction
- Professional Learning
- Family and Community Involvement

*Note: This guidance only applies to the 2020-2021 school year and may include updates to guidance provided in response to the COVID-19 pandemic and resulting school closures during the 2019-2020 school year.*

**Program Services**

- What are LEAs responsible for regarding G/T services during school reopening and potential closures?
 

LEAs should continue providing program services for G/T students. (TEC §29.122(a); 19 TAC §89.3, State Plan (2.16, 3.1, 3.6 & 4.1- Texas G/T State Plan 2019)).
- Who is responsible for G/T coordination?
 

LEA G/T services are coordinated by appropriately trained G/T education administrators, coordinators, and specialists (G/T Staff).
- Per House Bill 3, Sec 29.124, each school district shall annually certify to the commissioner that the district has established a program for gifted and talented students, that the program is consistent with the Texas State Plan for the Education of Gifted/Talented Students, and the use of funds on the district's program for G/T students. How will this be implemented during the 2020-2021 school year?
  - LEAs will continue to follow the certification process implemented in 2019-2020.
    - Identify and serve G/T students
    - Identify LEA G/T program service options
    - Report the use of G/T funds
    - Submit the plan for G/T services in all learning platforms
  - The agency will roll out the next phase of the certification process as a pilot with LEA trainings for full implementation in 2021-2022.

If you have further questions, please submit them to [disasterinfo@tea.Texas.gov](mailto:disasterinfo@tea.Texas.gov) and [monica.brewer@tea.Texas.gov](mailto:monica.brewer@tea.Texas.gov)

**TEA** Gifted/Talented Education **STRONG START**  
 October 15, 2020

(512) 463-9000 | disasterinfo@tea.texas.gov | tea.texas.gov/coronavirus

This guidance only applies to the 2020-2021 school year provided in response to the COVID-19 pandemic.

Local Educational Agencies (LEAs) must provide Gifted and Talented (G/T) services for students in all learning settings. The G/T assessment waiver for new identification ended in May 2020. LEAs are expected to resume the 2019-2020 identification and start the 2020-2021 identification for G/T process.

**State Goal for Services for G/T Students**  
 Students who participate in services designed for G/T students will demonstrate skills in self-directed learning, thinking, research, and communication as evidenced by the development of innovative products and performances that reflect individuality and creativity and are advanced in relation to students of similar age, experience, or environment. High school graduates who have participated in services for G/T students will have produced products and performances of professional quality as part of their program services.

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<https://tea.texas.gov/sites/default/files/covid/SY-20-21-GT-Guidance.pdf>



<https://public.govdelivery.com/accounts/TXTEA/subscriber/new>



**The State definition:** “...gifted and talented students” means: a child or youth who performs at or shows the potential for performing at a remarkably high level of accomplishment when compared to others of the same age, experience, or environment and who:

- Exhibits high performance capability in an intellectual, creative, or artistic area,
- Possess an unusual capacity for leadership, or
- Excels in a specific academic field.

Students who participate in services designed for gifted/talented students will demonstrate skills in self-directed learning, thinking, research and communication as evidenced by the development of innovative products and performances that reflect individuality and creativity and are advanced in relation to students of similar age, experience, or environment. High school graduates who have participated in services for gifted/talented students will have produced products and performances of professional quality as part of their program services.

Districts meet the needs of gifted/talented students by modifying the depth, complexity, and pacing of the curriculum and instruction ordinarily provided by the school.



This Photo by Unknown Author is licensed under [CCBY](#)



TexasHomeLearning

A young boy with short dark hair, wearing a blue and white plaid shirt, is sitting at a desk and smiling as he looks at a silver laptop. His right hand is on the keyboard. In the background, there is a white coffee cup on a saucer and a wooden chair. The scene is brightly lit, suggesting a window nearby.

# **GETTING STARTED WITH CARNEGIE LEARNING TEXAS MATH SOLUTION**

**May 5, 2021**

# Agenda

- THL 3.0 Instructional Materials
- Carnegie Learning Texas Math Solution
  - Comprehensive Blended Math Solution
  - Module 1 Walkthrough
  - MATHia
- Integration
- Get Started Today
- Q & A

**Reminder:** THL 3.0 is an optional, aligned suite of resources that educators can use fully or in-part in the new learning environment

# Texas Home Learning 3.0

## INSTRUCTIONAL MATERIALS



PreK-12 digitized, standards-aligned curricular content customized for Texas and the current learning environment

## TECHNOLOGY



Suite of technology tools including a learning management system to support student engagement and instructional collaboration

## PROFESSIONAL DEVELOPMENT



Content and technology focused professional development to support educators with implementation both in classroom and remote settings

Districts may optionally adopt none, part, or all of any of the three components above

# Why focus on instructional materials?

*A growing body of research demonstrates student achievement increases when students are provided with high quality instructional materials that:*

- Provide consistent opportunities to work on assignments aligned to grade-level standards
- Support strong instruction to ensure students are deeply engaged with what they are learning
- Include guidance to help teachers meaningfully differentiate for all students, including those with unfinished learning
- Help teachers set high expectations for students to meet grade-level standards



**Reminder:** Carnegie Learning is the THL 6-12 Math Product



**TEXAS MATH  
SOLUTION**

# Included in THL Carnegie Learning Texas 6 – 12 Math Solution

Includes all Components:

**Unit plans and daily lesson plans aligned to Texas standards**



- Daily teacher lesson plans, student materials, and assessments, with guidance for remote learning

**Teacher, student, and family supports**



- Family guides
- Teacher implementation supports

**Digital format with printing capability**



- Instructional materials available digitally and in print
- MATHia software

**Accessibility supports for all learners**



- Student-facing materials in Spanish
- Text-to-Speech
- Just-in-Time Hints

**Formative & summative unit assessments**



- Built-in daily formative assessments in MATHia
- Lesson level quizzes

**Built in progress monitoring**



- Mid-topic assessments for longer units to support progress monitoring
- Real-time feedback from MATHia through teacher dashboard

# Overview of THL Implementation Webinar Series

## Onboarding Training Series

### Adapt/Adopt Remote Curriculum

- Webinar series completed
- Materials available on the TEA website Strong Start Page

### Product Specific Adoption

- Product information to provide districts with information to support product specific adoption decisions.

### Product & Stakeholder Specific Onboarding

- **WE ARE HERE!**
- Additional product information will be provided for different users interested in adopting each product

### Technology Supports

- Additional product information will be provided to help users understand how technology supports can enhance each product

**TEA is developing the following four webinar series to support implementation of THL resources.**

# Existing Resources

[www.texashomelearning.org](http://www.texashomelearning.org)

## Upcoming Webinars

Adopting and Getting Started with Carnegie Learning Texas Math Solution (6-12): September 9 at 1:00 p.m.

K-5 Science Materials Overview: September 10 at 1:00 p.m.

Reading Language Arts Materials Overview: September 11 at 1:00 p.m.

## Recorded Webinars

Instructional Materials Overview Series: Eureka Math TEKS Edition (K-5)

Instructional Materials Overview Series: Carnegie Learning Texas Math Solution (6-12)

- August 25th webinar recording can be accessed via the Texas Home Learning site
- This webinar provided:
  - Materials release timeline
  - Answers to Frequently Asked Questions
  - Introduction to Carnegie Learning and the Carnegie Learning Texas Math Solution
    - Student Materials
    - Teacher Materials
    - Accessibility
    - Home Supports
  - Best practices for effective implementations



# **Carnegie Learning Texas Math Solution**

# Carnegie Learning Texas Math Solution

## Accessibility for All Learners

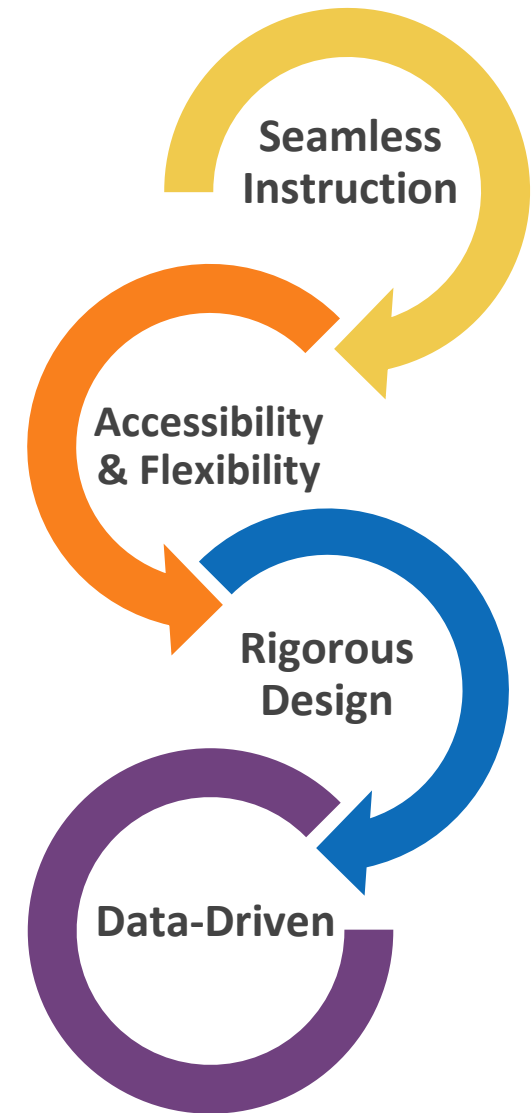
- Grades 6-8, Algebra I, Algebra II, Geometry
- Accelerated Middle School Pathways
  - **Acc Grade 6** to address 6th and 7th grade standards
  - **Acc Grade 7** to address 7th and 8th grade standards
- Digital and printable formats
- Student-facing resources in English and Spanish

## High-quality, Rigorous Lesson Design

- TEKS-aligned
- 36 weeks of instruction
- MATHia software with TEKS-aligned sequences

## Data-Driven

- Built-in daily formative assessments in lessons and MATHia
- Summative, End-of-Unit Assessments



# Published Materials

[www.texashomelearning.org/instructional-materials-thl](http://www.texashomelearning.org/instructional-materials-thl)

## Explore THL Instructional Materials

---

<b>Math</b>	<b>Science</b>
Available Now	Release Date: September 10
<b>Grades K-5</b>	<b>Grades K-5</b>
<a href="#">Product Details</a>	<a href="#">Product Details</a>
<a href="#">Watch Webinar</a>	<a href="#">Watch Webinar</a>
<a href="#">Access Materials</a>	<a href="#">Access Materials</a>

# Published Materials

[discover.carnegielearning.com/THL3.html](https://discover.carnegielearning.com/THL3.html)

**CL TEXAS MATH SOLUTION**

## Carnegie Learning Texas Math Solution

### Quality Math Instruction for 6-12 Texas Educators

The Texas Education Agency (TEA) has partnered with Carnegie Learning to provide educators and students with free access to its highly rated middle school and high school content to support continuous learning efforts in the 2020-21 school year and beyond. Educators who choose to participate will receive access to TEKS-aligned curriculum materials and adaptive math learning software, MATHia®, all customized for Texans to access high quality content that works seamlessly between remote and in-classroom environments.

Click **Explore the Materials** to access the Texas Math Solution published materials for each course.

Click **Get Started Today** to learn more or schedule an implementation meeting.

Is your school implementing? Click **Join a Workshop** to sign up for a live implementation workshop.

[▶ Explore the Materials](#) [▶ Get Started Today](#) [▶ Join a Workshop](#)





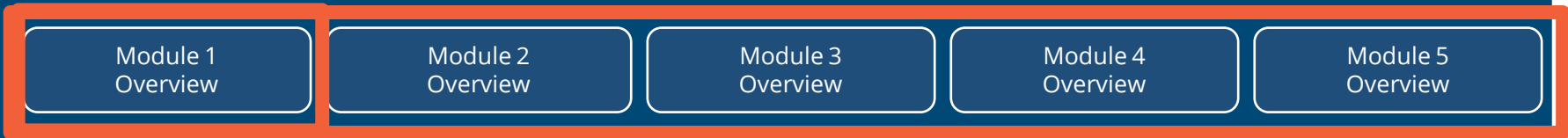
# Texas Math Solution

## Course Level Instructional Materials

**Course Front Matter**  
TIG\*  
Student Edition

**Course Pacing Guide**  
Teacher Edition

**Getting Started:  
Adapted Virtual Lesson 0**  
Student Edition



### Topic Level Instructional Materials

- Topic Overview**  
Teacher Guide
- Topic Pacing Guide**  
Teacher Guide
- Topic Summary**  
Student Edition
- Topic Family Guide**  
Family Edition
- End-of-Topic Assessment**  
Student Edition (text & digital)  
Teacher Answer Key
- Mid-Topic Assessment\*\***  
Student Edition (text & digital)  
Teacher Answer Key

### Lesson Level Instructional Materials

- Textbook Lesson**  
TIG\*  
Student Edition
- Adapted Virtual Lesson**  
TIG\*  
Student Edition
- Lesson Video(s)**  
Student Edition
- Assignment**  
Student Edition  
Teacher Answer Key

\*\*Mid-Topic Assessments are only provided for Topics that extend for more than four instructional weeks  
\*TIG: Teacher's Implementation Guide

- **Course Overview and Pacing**

- Course Pacing Guide
- Teacher's Implementation Guide (TIG): Front Matter
- Student Edition: Front Matter

- **Topic Instructional Materials**

- Topic Pacing Guide
- Module and Topic Overviews
- Lesson Materials
  - Teacher Lesson Plan
  - Student Lesson
  - Student Assignment
  - Assignment Answer Key
- Assessment
- Family Guide

### Sample Materials

- Available for 8 courses
  - MS: Grades 6-8, Accelerated 6 & 7
  - HS: Alg 1, Geo, Alg 2
- Course Overview and Pacing Resources, along with Instructional Materials, available for Topic 1

# Course Overview and Pacing: Course Pacing Guide

MODULE 1: THINKING PROPORTIONALLY				
TOPIC 1: Circles and Ratios				
LESSON #	LESSON TITLE	LESSON SUBTITLE	TEKS	PACING*(days)
1	Pi: The Ultimate Ratio	<i>Exploring the Ratio of Circle Circumference to Diameter</i>	7.5B 7.8C 7.9B	2
2	That's a Spicy Pizza	<i>Area of Circles</i>	7.4B 7.8C 7.9B	2
<b>MATHia</b>				1
3	Circular Reasoning	<i>Solving Area and Circumference Problems</i>	7.9B 7.9C	2
<b>MATHia</b>				1
<b>End of Topic Assessment</b>				

Grade 7

\*1 Day = 45 minute session

# Course Overview and Pacing: Course Pacing Guide

MODULE 1: THINKING PROPORTIONALLY				
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MATHia				1
3	Circular Reasoning	<i>Solving Area and Circumference Problems</i>	7.9B 7.9C	2
MATHia				
End of Topic Assessment				

\*1 Day = 45-minute session

Guides contain pacing recommendations based on 45-minute sessions; pacing can be adjusted to fit block and alternate schedules.

# Course Overview and Pacing: Course Pacing Guide

MODULE 1: THINKING PROPORTIONALLY				
TOPIC 1: Circles and Ratios				
LESSON #	LESSON TITLE	LESSON SUBTITLE	TEKS	PACING*(days)
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MATHia				1
3	Circular Reasoning	<i>Solving Area and Circumference Problems</i>	7.9B 7.9C	2
MATHia				
End of Topic Assessment				

Guides indicate TEKS alignment at the lesson level.

\*1 Day = 45-minute session



# Course Overview and Pacing: Course Pacing Guide

MODULE 1: THINKING PROPORTIONALLY				
TOPIC 1: Circles and Ratios				
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2	That's a Spicy Pizza	<i>Area of Circles</i>	7.4B 7.8C 7.9B	2
MATHia				1
3	Circular Reasoning	<i>Solving Area</i>	9B 9C	2
MATHia				1
End of Topic Assessment				

**Guidance is provided for intentional blending of the student instructional resources by indicating allotted student learning time with MATHia.**

\*1 Day = 45-minute session

# Teacher Unit Plan: Grade 7

MODULE 1: THINKING PROPORTIONALLY				
TOPIC 1: Circles and Ratios				
LESSON #	LESSON TITLE	LESSON SUBTITLE	TEKS	PACING*(days)
1	Pi: The Ultimate Ratio	<i>Exploring the Ratio of Circle Circumference to Diameter</i>	7.5B 7.8C 7.9B	2
2	That's a Spicy Pizza	<i>Area of Circles</i>	7.4B 7.8C 7.9B	2
MATHia				1
3	Circular Reasoning	<i>Solving Area and Circumference</i>	7.5B 7.8C	2
MATHia				1
End of Topic Assessment				

**Assessment days are also built in to the pacing guides.**

\*1 Day = 45-minute session

## 7. Facilitation Notes by Activity

A detailed set of guidelines walks the teacher through implementing the Getting Started, Activities, and Talk the Talk portions of the lesson. These guidelines include an activity overview, grouping strategies, guiding questions, possible student misconceptions, differentiation strategies, student look fors, and an activity summary.

## 8. Activity Overview

Each set of Facilitation Notes begins with an overview that highlights how students will actively engage with the task to achieve the learning goals.

## 9. Differentiation Strategies

To extend an activity for students who are ready to advance beyond the scope of the activity, additional challenges are provided.

### 7 Getting Started: Learning the Limo Business

#### 8 Facilitation Notes

In this activity, students examine the cost structures for two different limousine companies in order to create a competitive cost structure for a third company. Students will use this table in Activity 2.1.

Ask a student to read the introductory paragraph aloud. Discuss both the paragraph and table and complete Question 1 as a class.

#### Questions to ask

- What patterns do you notice in the table?
- When renting a limousine, why do you think companies charge more money for the first hour than the other hours?
- If you planned on renting a limousine for 4 hours, what company would you choose?
- If you planned on renting a limousine for 2.5 hours, what company would you choose?
- If you planned on renting a limousine for 1 hour, what company would you choose?
- If you planned on renting a limousine for an evening, what company would you choose?
- If wanted to know the cost for 10 hours, why is doubling the cost for 5 hours an incorrect strategy?
- Why might the response "It depends." be the best response for Question 1?
- Does this table represent a proportional relationship? How can you tell?

#### 9 Differentiation strategies

To extend the activity, have students

- Write inequalities for the time frame when each plan is the less expensive plan.
- Explain what constant in their price structure each company should emphasize when advertising.

LESSON 2: Stretches, Stac

## Teacher Implementation Guide Front Matter Provides Overview of:

- Instructional Approach
- Blended Learning Model
- Mathematical Coherence
- Tools for Facilitating Student Learning
  - Lesson Structure
  - Problem Types
  - TX Math Process Standards
  - Instructional Strategies



## Problem Types You Will See

### WORKED EXAMPLE

	$\frac{11}{3}x + 5 = \frac{17}{3}$	$\frac{1}{2}x + \frac{3}{4} = 2$
Step 1:	$3\left(\frac{11}{3}x + 5\right) = 3\left(\frac{17}{3}\right)$	$4\left(\frac{1}{2}x + \frac{3}{4}\right) = 4(2)$
Step 2:	$11x + 15 = 17$	$2x + 3 = 8$
Step 3:	$x = \frac{17 - 15}{11}$	$x = \frac{8 - 3}{2}$
	$= \frac{2}{11}$	$= \frac{5}{2}$

### Worked Example

#### When you see a Worked Example:

- Take your time to read through it.
- Question your own understanding.
- Think about the connections between steps.

#### Ask Yourself:

- What is the main idea?
- How would this work if I changed the numbers?
- Have I used these strategies before?

### Thumbs Up

#### When you see a Thumbs Up icon:

- Take your time to read through the correct solution.
- Think about the connections between steps.

#### Ask Yourself:

- Why is this method correct?
- Have I used this method before?

### Thumbs Down



#### When you see a Thumbs Down icon:

- Take your time to read through the incorrect solution.
- Think about what error was made.

#### Ask Yourself:

- Where is the error?
- Why is it an error?
- How can I correct it?

Analyze the solution strategy and solution for each inequality.

<p><b>Ella</b> </p> $-\frac{1}{2}x + \frac{3}{4} < 2$ $-4\left(-\frac{1}{2}x + \frac{3}{4} < 2\right)$ $2x - 3 > -8$ $2x > -5$ $x > \frac{-5}{2}$ $x > -2.5$	<p><b>Jeff</b> </p> $-12x + 20 < 32$ $\frac{-12x + 20}{-4} < \frac{32}{-4}$ $3x - 5 < -8$ $3x < -3$ $x < -1$
--	--

Describe the strategy that Ella used correctly.

Identify the error in Jeff's strategy and determine the correct solution.

## Student Edition

## Front Matter Provides Overview of:

- Lesson Structure
  - Learning Goals
  - Getting Started
  - Activities
  - Talk the Talk
  - Assignment
- Problem Types
- TX Math Process Standards

# Topic Instructional Materials: Topic Pacing Guide

MODULE 1: THINKING PROPORTIONALLY				
TOPIC 1: Circles and Ratios				
ELPS: 1.A, 1.C, 1.E, 1.F, 1.G, 2.C, 2.E, 2.I, 3.D, 3.E, 4.B, 4.C, 4.D, 4.J, 5.B, 5.F, 5.G				
LESSON #	LESSON TITLE/MATHia UNIT	LESSON SUBTITLE/MATHia WORKSPACE	TEKS	PACING* (days)
		Exploring the Ratio of Circle Circumference to Diameter	7.5B 7.8C 7.9B	2
2	That's a Spicy Pizza	Area of Circles	7.4B 7.8C 7.9B	2
<b>MATHia</b>				1
3	Circular Reasoning	Solving Area and Circumference Problems	7.9B 7.9C	2
<b>MATHia</b>				1
<b>End of Topic Assessment</b>				

**Topic-level Pacing Guides include English Language Proficiency Standards addressed within the topic.**

## Module 1 Overview

### Thinking Proportionally



"The cross product is not the only way to solve proportions... This strategy, when understood, is useful when numbers are more challenging and the unit rate or scale factor is not as easy to calculate." In fact, a synthesis of research on student learning about ratio and proportion concludes, "[S]ymbolic or mechanical methods, such as the cross-product algorithm, for solving proportions do not develop proportional reasoning and should not be introduced until students have had many experiences with intuitive and conceptual methods." (*Teaching Student-Centered Mathematics: Developmentally Appropriate Instruction for Grades 6–8, Vol 3, 2nd Edition*, p. 218, 219)

#### Why is this Module named Thinking Proportionally?

**Thinking Proportionally** relies heavily on students' reasoning about quantities to develop strategies and algorithms for solving problems involving ratios and proportional relationships. Throughout the module, students use reasoning about numbers in relation to each other rather than as abstract objects to analyze and describe relationships. Students identify and describe proportional and non-proportional mathematical and real-world situations, because, in order to discern the characteristics of proportional relationships, students must experience relationships that are not proportional. Developing the ability to think proportionally requires a variety of experiences and time to achieve fluency, therefore, the module includes opportunities both to reason about quantities and to develop precision and fluency with proportional relationships.

#### What is the mathematics of Thinking Proportionally?

**Thinking Proportionally** contains three topics: *Circles and Ratio*, *Fractional Rates*, and *Proportionality*. Students investigate special ratios, including pi and ratios of fractions, as they develop and connect formulas for the circumference and area of circles and improve their fluency with writing and interpreting unit rates. They also investigate tables, graphs, equations, and verbal descriptions of proportional relationships and use multiple representations to solve a wide variety of proportion problems.

*Circles and Ratio* uses the ratio of the circumference of a circle to its diameter to develop an understanding of the irrational number pi. Students use the ratio to derive the formula for the circumference of a circle. This formula is then used to derive the formula for the area of a circle. Students then use both formulas to solve mathematical and real-world problems.

## Teacher Implementation Guide Module Overview Describes:

- Module name
- Mathematics being developed
- Connections to prior and future learning
- Pacing information

## Module 1 Overview

### Thinking Proportionally



"The cross product is not the only way to solve proportions... This strategy, when understood, is useful when numbers are more challenging and the unit rate or scale factor is not as easy to calculate." In fact, a synthesis of research on student learning about ratio and proportion concludes, "[S]ymbolic or mechanical methods, such as the cross-product algorithm, for solving proportions do not develop proportional reasoning and should not be introduced until students have had many experiences with intuitive and conceptual methods." (*Teaching Student-Centered Mathematics: Developmentally Appropriate Instruction for Grades 6–8, Vol 3, 2nd Edition*, p. 218, 219)



#### Why is this Module named Thinking Proportionally?

**Thinking Proportionally** relies heavily on students' reasoning about quantities to develop strategies and algorithms for solving problems involving ratios and proportional relationships. Throughout the module, students use reasoning about numbers in relation to each other rather than as abstract objects to analyze and describe relationships. Students identify and describe proportional and non-proportional mathematical and real-world situations, because, in order to discern the characteristics of proportional relationships, students must experience relationships that are not proportional. Developing the ability to think proportionally requires a variety of experiences and time to achieve fluency, therefore, the module includes opportunities both to reason about quantities and to develop precision and fluency with proportional relationships.



#### What is the mathematics of Thinking Proportionally?

**Thinking Proportionally** contains three topics: *Circles and Ratio*, *Fractional Rates*, and *Proportionality*. Students investigate special ratios, including pi and ratios of fractions, as they develop and connect formulas for the circumference and area of circles and improve their fluency with writing and interpreting unit rates. They also investigate tables, graphs, equations, and verbal descriptions of proportional relationships and use multiple representations to solve a wide variety of proportion problems.

*Circles and Ratio* uses the ratio of the circumference of a circle to its diameter to develop an understanding of the irrational number pi. Students use the ratio to derive the formula for the circumference of a circle. This formula is then used to derive the formula for the area of a circle. Students then use both formulas to solve mathematical and real-world problems.

## Teacher Implementation Guide Topic Overview Describes:

- Topic organization
- Entry points
- Student understanding
- Practice standards
- Blended learning

## Circles and Ratio Summary

### KEY TERMS

- congruent
- circle
- radius
- diameter
- circumference
- pi
- unit rate

LESSON  
1

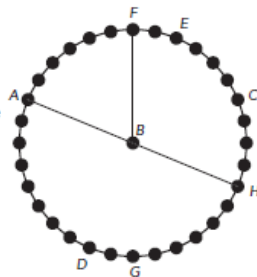
### Pi: The Ultimate Ratio

A **circle** is a collection of points on the same plane equidistant from the same point. The center of a circle is the point from which all points on the circle are equidistant.

A **radius** of a circle is a line segment formed by connecting a point on the circle and the center of the circle. The distance across a circle through the center is a **diameter** of the circle. A diameter of a circle is a line segment formed by connecting two points on the circle such that the line segment passes through the center point.

Circles are named by their center point. For example, the circle shown is Circle B. A radius of Circle B is line segment FB. A diameter of Circle B is line segment AH.

The distance around a circle is called the **circumference** of the circle. The number **pi** ( $\pi$ ) is the ratio of the circumference of a circle to its diameter. That is,  $\pi = \frac{\text{circumference of a circle}}{\text{diameter of a circle}}$ , or  $\pi = \frac{C}{d}$ , where  $C$  is the circumference of the circle, and  $d$  is the diameter of the circle. The number  $\pi$  has an infinite number of decimal digits that never repeat. Some approximations used for the value  $\pi$  are 3.14 and  $\frac{22}{7}$ . You can use the ratio to write a formula for the circumference of a circle:  $C = \pi d$ .



## Student Topic Summary Provides:

- Key terms
- Recap of mathematical concepts within each lesson

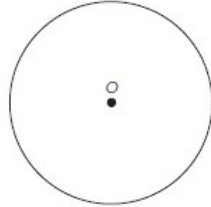
# Topic Instructional Materials: Student Lesson

Printable,  
PDF format

## Getting Started

### Across and Around

A circle is shown with a point drawn at the center of the circle. The name of the point is  $O$ , so let's call this Circle  $O$ .



Be sure to include units when you record your measurements.



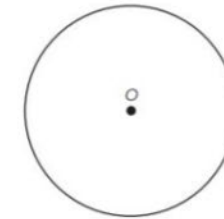
1. Analyze the distance around the circle.
  - a. Use a string and a centimeter ruler to determine the distance around the circle.
  - b. How does your measurement compare to your classmates' measurements? Summarize the similarities and differences.
2. Draw a line from a point on the circle to the center of the circle, point  $O$ .
  - a. Measure your line using your centimeter ruler.
  - b. How does your measurement compare to your classmates' measurements? Summarize the similarities and differences.

## Getting Started

Digital,  
Interactive  
format

A circle is shown with a point drawn at the center of the circle. The name of the point is  $O$ , so let's call this Circle  $O$ .

We want to measure the distance around the circle. If the only materials available to you were a straight edge ruler and some string, how might you use those two resources to determine the distance around the circle?



Save Answer

< back Go To next >

# Topic Instructional Materials: Student Videos

Everyone can identify a circle when they see it, but defining a circle is a bit harder. Can you define a circle without using the word round? Investigating how a circle is formed will help you mathematically define a circle.

« UP

or down to  
ne an equivalent

iles	=	$\frac{?}{1 \text{ hour}}$
urs	=	$\frac{?}{1 \text{ day}}$
0)	=	$\frac{?}{5 \text{ ft}}$
s	=	$\frac{?}{1 \text{ lb}}$

### LEARNING GOALS

- Identify pi ( $\pi$ ) as the ratio of the circumference of a circle to its diameter.
- Construct circles using a compass and identify various parts of circles.
- Know and write the formula for the circumference of a circle, and use the formula to solve problems.

### KEY TERMS

- congruent
- circle
- radius
- diameter
- circumference
- pi

0:26 / 0:49

< back Go To next >

## Student-facing Videos

- Embedded at the point of use, as necessary, to support the development of key mathematics concepts in a virtual setting
- Additional videos are available for teacher assignment to provide intentional scaffolding and guidance

# Topic Instructional Materials: Teacher Lesson

Lesson 1: Pi: The Ultimate Ratio

Activity 1.3: The Circumference Formula

Facilitation Notes

In this activity, students create a formula for the circumference of any circle and use it to compute unknown values.

Have students work with a partner in a group to complete Questions 1 and 2. Share responses as a class.

**Differentiation strategy**

For students who struggle with rewriting the formula, help them make the connection to fact families.

**Questions to ask**

- Is  $\pi$  a rational number? What is the definition of a rational number?
- What is the relationship between the diameter and the radius? Does  $C = 2r$  or does  $r = 2d$ ?

Relationship between the formula  $C = \pi d$  and  $C = 2\pi r$ . If the radius is known, how can you determine the diameter? If the diameter is known, how can you determine the radius? If the radius is known, how can you determine the circumference? If the diameter is known, how can you determine the circumference? If the circumference is known, how can you determine the radius? If the circumference is known, how can you determine the diameter?

Have students work with a partner to complete Question 3. Share responses as a class.

Ratio of the circumference of a circle to its diameter.

of a circle, or  $\pi = \frac{C}{d}$ .

of a circle, and  $d$  is the diameter of the circle. The number  $\pi$  has an infinite number of digits that never repeat. Some approximations used for the value  $\pi$  are 3.14 and  $\frac{22}{7}$ .

Activity 1.3: The Circumference Item 17

Use different representations for  $\pi$  to circle.

Calculate the circumference of a circle with a radius of 4.5 centimeters and a circle with a radius of 6 inches to the nearest ten-thousandths, if necessary.

Value for $\pi$	$d = 4.5$
$\pi$	
Use the $\pi$ Key on a Calculator	
Use 3.14 for $\pi$	
Use $\frac{22}{7}$ for $\pi$	

Save Answer

Activity 1.3 Answers

1.  $C = \pi d$
2.  $C = 2\pi r$

Value for $\pi$	$d = 4.5$ centimeters	$r = 6$ inches
$\pi$		
Use the $\pi$ Key on a Calculator	$\approx 14.1372$ cm	$\approx 37.6991$ cm
Use 3.14 for $\pi$	$\approx 14.13$ cm	$\approx 37.68$ cm
Use $22/7$ for $\pi$	$\approx 14.1429$ cm	$\approx 37.7143$ cm

Page: 1.0

Show only manually graded questions

Previous Student

Previous Item Next Item

Next Student

Digital, Interactive format

Printable, PDF format

**ELL Tip**

Group intermediate English Language Learners in pairs. Students can then collaborate to discuss the work of Jimmy and Matthew before answering parts (a) and (b). While students are in pairs, remind them to support one another using math vocabulary accurately or if a peer is struggling to name a word.





## Assignment

### Assignment

#### Write

Define each term in your own words.

1. circle
2. radius
3. diameter
4. pi

#### Remember

The circumference of a circle is the distance around the circle. The formulas to determine the circumference of a circle are  $C = \pi d$  or  $C = 2\pi r$ , where  $d$  represents the diameter,  $r$  represents the radius, and  $\pi$  is a constant value equal to approximately 3.14 or  $\frac{22}{7}$ .

The constant pi ( $\pi$ ) represents the ratio of the circumference of a circle to its diameter.

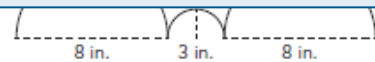
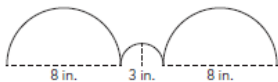
#### Practice

Answer each question. Use 3.14 for  $\pi$ . Round your answer to the nearest hundredth, if necessary.

1. Although she's only in middle school, Tameka loves to drive go-carts! Her favorite place to drive go-carts, Driver's Delight, has 3 circular tracks. Track 1 has a radius of 60 feet. Track 2 has a radius of 85 feet. Track 3 has a radius of 110 feet.
  - a. Compute the circumference of Track 1.
  - b. Compute the circumference of Track 2.
  - c. Compute the circumference of Track 3.
  - d. Driver's Delight is considering building a new track. They have a circular space with a diameter of 150 feet. Compute the circumference of the circular space.
2. Tameka wants to build a circular go-cart track in her backyard.
  - a. If she wants the track to have a circumference of 150 feet, what does the radius of the track need to be?
  - b. If she wants the track to have a circumference of 200 feet, what does the radius of the track need to be?
  - c. If she wants the track to have a circumference of 400 feet, what does the diameter of the track need to be?

#### Stretch

A rope is arranged using three semi-circles to form the pattern shown. Determine the length of the rope.



### Assignment Answers

#### Write

1. A circle is a collection of points on the same plane equidistant from the same point.
2. The radius of a circle is a line segment formed by connecting a point on the circle and the center of the circle.
3. The diameter of a circle is a line segment formed by connecting two points on the circle such that the line segment passes through the center point.
4. Pi is the ratio of any circle's circumference to its diameter

#### Practice

- 1a. The circumference of Track 1 is approximately 376.8 ft.
- 1b. The circumference of Track 2 is approximately 533.8 ft.
- 1c. The circumference of Track 3 is approximately 690.8 ft.
- 1d. The circumference of the space is approximately 471 ft.
- 2a. The radius of the track should be approximately 23.89 ft.

## Lesson Assignment:

- One per Lesson
- Five Sections:
  - Write
  - Remember
  - Practice
  - Stretch
  - Review

## Assignment

### Write

Define each term in your own words.

1. circle
2. radius
3. diameter
4. pi

### Remember

The circumference formulas to determine the circumference of a circle are  $C = 2\pi r$ , where  $r$  is the radius and  $\pi$  is a constant.

The constant  $\pi$  is the ratio of the circumference of a circle to its diameter.

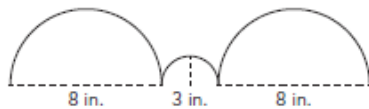
### Practice

Answer each question. Use 3.14 for  $\pi$ . Round your answers to the nearest hundredth.

1. Although she's only in middle school, Tameka loves to go-carts. Driver's Delight, has 3 circular tracks. Track 1 has a radius of 85 feet. Track 2 has a radius of 110 feet. Track 3 has a radius of 110 feet.
  - a. Compute the circumference of Track 1.
  - b. Compute the circumference of Track 2.
  - c. Compute the circumference of Track 3.
  - d. Driver's Delight is considering building a new track in her backyard. The track will have a diameter of 150 feet. Compute the circumference of the circular space.
2. Tameka wants to build a circular go-cart track in her backyard.
  - a. If she wants the track to have a circumference of 150 feet, what does the radius of the track need to be?
  - b. If she wants the track to have a circumference of 200 feet, what does the radius of the track need to be?
  - c. If she wants the track to have a circumference of 400 feet, what does the diameter of the track need to be?

### Stretch

A rope is arranged using three semi-circles to form the pattern shown. Determine the length of the rope.



CL LiveHint™ by Carnegie Learning

Welcome to **LiveHint!** I'm your **TutorBot**. I can give you hints on Practice problems from your **Carnegie Learning MATHbook**.

Following hints is a great way to boost your problem-solving skills and strengthen understanding!

Let's go! Español

## LiveHint

- Mobile (phone) first experience
- Real-time hints on Assignment Practice problems
- Supports remote learning

How

Figure A Figure B

**Directions**  
Figure B is the image of Figure A. Determine the relationship between the figures. Then explain how Figure A was transformed to create Figure B. 😊

See a hint.

**Hint 1**  
Look at part (a). You just need to say whether the figures appear to be congruent or not.

CHOOSE AN OPTION

Next

↑

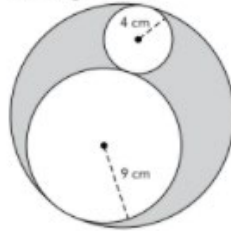
## CIRCLES AND RATIO

## End of Topic Assessment

Name \_\_\_\_\_ Date \_\_\_\_\_

- The circumference of a circle is 32 centimeters. Which is closest to the radius?
  - 5.3 centimeters
  - 16 centimeters
  - 5.1 centimeters
  - 10.2 centimeters
- Approximately how much fencing is needed to enclose a circular pond with a diameter of 12.5 feet?
  - 37.5 feet
  - 19.625 feet
  - 78.5 feet
  - 39.25 feet

- One medium circle and one small circle touch each other, and each circle touches the larger circle.



Which is the area of the shaded region?

- $72\pi$  square centimeters
- $97\pi$  square centimeters
- $26\pi$  square centimeters
- $169\pi$  square centimeters

© Carnegie Learning, Inc.

- Which is the ratio of the circumference of any circle to the radius of the circle?
  - $\pi$
  - $2\pi$
  - $\frac{\pi}{2}$
  - $\frac{2}{\pi}$

## End of Topic Assessments

- One assessment per topic
- Mid-topic assessments for topics spanning more than 4 weeks
- STAAR-like questions

# Topic Instructional Materials: Family Guide

Carnegie Learning Family Guide

Grade 7

## Module 1: Thinking Proportionally

### TOPIC 1: CIRCLES AND RATIO

In this topic, students learn formulas for the circumference and area of circles and use those formulas to solve mathematical and real-world problems. To fully understand the formulas, students develop an understanding of the irrational number pi ( $\pi$ ) as the ratio of a circle's circumference to its diameter. Throughout the topic, students practice applying the formulas for the circumference and area of a circle, often selecting the appropriate formula. Finally, students practice applying the formulas by using them to solve a variety of problems, including calculating the area of composite figures.

### Where have we been?

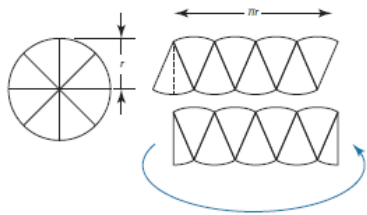
Throughout elementary school, students used and labeled circles and determined the perimeters of shapes formed with straight lines. In grade 6, students worked extensively with ratios and ratio reasoning. To begin this topic, students draw on these experiences as they use physical tools to investigate a constant ratio, pi.

### Where are we going?

This early review of and experience with ratios prepares students for future lessons where they will move from concrete representations and reasoning about ratios and proportions to more abstract and symbolic work with solving proportions and representing proportional relationships. In future grades, students will use the circumference and area formulas of a circle to calculate surface areas and volumes of cylinders and composite three-dimensional shapes that include circles.

### Modeling the Area of a Circle Using Wedges

Divide a circle into a large number of equal-sized wedges. Laying these wedges as shown, you can see that they approximate a rectangle with a length of  $\pi r$  and a height of  $r$ . The more wedges are added, the closer the figure will be to an exact rectangle. So, the rectangle of wedges, and thus, the circle, each has an area of  $\pi r^2$ .



### Myth: "I don't have the math gene."

Let's be clear about something. There isn't a gene that controls the development of mathematical thinking. Instead, there are probably *hundreds* of genes that contribute to our ability to reason mathematically. Moreover, a recent study suggests that mathematical thinking arises from the ability to learn a language. Given the right input from the environment, children learn to speak without any formal instruction. They can learn number sense and pattern recognition the same way.



To further nurture your child's mathematical growth, attend to the learning environment. You can think of it as providing a nutritious mathematical diet that includes discussing math in the real world, offering the right kind of encouragement, being available to answer questions, allowing your student to struggle with difficult concepts, and giving them space for plenty of practice.

#mathmythbusted

### Talking Points

You can further support your student's learning by asking questions about the work they do in class or at home. Your student is learning to think flexibly about mathematical relationships involving multiplication, area, and number properties.

### Questions to Ask

- How does this problem look like something you did in class?
- Can you show me the strategy you used to solve this problem? Do you know another way to solve it?
- Does your answer make sense? How do you know?
- Is there anything you don't understand? How can you use today's lesson to help?

### Key Terms

#### radius

The radius of a circle is a line segment formed by connecting a point on the circle and the center of the circle.

#### diameter

The diameter of a circle is a line segment formed by connecting two points on the circle such that the line segment passes through the center point.

#### circumference

The circumference of a circle is the distance around the circle. The circumference is calculated using the formula  $C = \pi d$ .

#### pi

The number pi ( $\pi$ ) is the ratio of the circumference of a circle to its diameter.

## Family Guides

- One per topic
- Designed to support families as they talk to their students about what they are learning
- Provide
  - Overview of Mathematics and connections to prior and future learning
  - Real-world examples
  - Sample standardized test questions
  - Key terms

# Blended Learning: MATHia

The screenshot shows the MATHia interface on an iPad. The browser address bar shows 'carnegielearning.com'. The page title is 'MATHia® Investigating Circles'. The main content area is titled 'Parts of a Circle' and includes the following text:

A circle is the set of points that are all the same distance from a center point. A circle is usually named by its center point. For example, the circle shown is called Circle  $B$ .

A **diameter** of a circle is a line segment that connects two points on the circle and passes through the center. Line segment  $EF$  is an example of a diameter of Circle  $B$ .

A **radius** of a circle is a line segment that connects the center of the circle with a point on the circle. Line segment  $BC$  is an example of a radius of Circle  $B$ . A radius is half the length of a diameter of a circle. Line segment  $AB$  is also an example of a

Below the text are two diagrams. The first diagram shows a circle with center  $B$  and points  $A, C, E, D, F$  on the circumference. Line segments  $BC$  and  $BF$  are drawn. The second diagram shows a circle with center  $O$  and points  $R, W, K, V, U, E, M, Z$  on the circumference. Line segments  $OK$  and  $MO$  are drawn.

Interactive questions on the right side of the screen include:

- Study the example and then answer each question.
- In the example on the left, line segment  $DB$  is a  of circle  $B$ .
- The circle shown has point  $O$  as its center.
- Line segment  $OK$  is a  of Circle  $O$ .
- Line segment  $MO$  is a  of Circle  $O$ .
- Line segment  $ER$   is  is not a diameter of Circle  $O$ .

- Constructive guidance, from the start
- Thorough formative assessments that deliver true personalized learning every step of the way
- Ongoing customized, contextual hints and just-in-time feedback
- Skill-based approach ensures deep mastery of math

# MATHia Demo

[discover.carnegielearning.com/THL3.html](https://discover.carnegielearning.com/THL3.html)

## EXPLORE THE CONTENT

Below you will find samples of the instructional materials and access to a MATHia demo where you can experience the software just as a student would. These sample lessons are being developed as part of the TEKS aligned modules included in the Carnegie Learning Texas Math Solution.

Scope & Sequence

Download Sample

Teacher Lesson

Download Sample

Formative Assignment

Download Sample

MATHia Alignment

Download Sample

Middle School MATHia

Launch Demo

High School MATHia

Launch Demo



# MATHia Reports and Data

## MATHia® Predictive Analytics Report

- Full-year insight
- Predicts students' future performance on tasks and assessments (e.g., STAAR)

## MATHia® TEKS Report

- Custom report to display proficiency for TEKS
- Shows the status of every standard for every student

## MATHia® Skills Mastery Report

- Precisely identify mastered skills and focus attention to skills not mastered
- Individual student and class views

## MATHia® Progress Report

- Monitors class-level and individual student progress and performance across the entire syllabus



# Integration



# Integration

- Getting Started Guides for seamless integration with existing Learning Management Systems and Single-Sign On solutions
- Manual Getting Started options ensure accessibility for all schools and students



**TEXAS MATH  
SOLUTION**

# Schoology



## INTEGRATION SYSTEMS HELP TO:

- Maintain central communication
- Ensure continuity between remote and in-school learning
- Provide a centralized, single sign-on destination for students, educators and parents for access to relevant resources and information

## GET STARTED:

<https://www.powerschool.com/texas/>

- **Schoology LMS**
- **Free Two-Year License**



# Getting Started

# Explore the Materials

[discover.carnegielearning.com/THL3.html](https://discover.carnegielearning.com/THL3.html)

**CL TEXAS MATH SOLUTION**

## Carnegie Learning Texas Math Solution

### Quality Math Instruction for 6-12 Texas Educators

The Texas Education Agency (TEA) has partnered with Carnegie Learning to provide educators and students with free access to its highly rated middle school and high school content to support continuous learning efforts in the 2020-21 school year and beyond. Educators who choose to participate will receive access to TEKS-aligned curriculum materials and adaptive math learning software, MATHia®, all customized for Texans to access high quality content that works seamlessly between remote and in-classroom environments.

Click **Explore the Materials** to access the Texas Math Solution published materials for each course.

Click **Get Started Today** to learn more or schedule an implementation meeting.

Is your school implementing? Click **Join a Workshop** to sign up for a live implementation workshop.

[▶ Explore the Materials](#) [▶ Get Started Today](#) [▶ Join a Workshop](#)



- **Course Overview and Pacing**

- Course Pacing Guide
- Teacher's Implementation Guide (TIG): Front Matter
- Student Edition: Front Matter

- **Topic Instructional Materials**

- Topic Pacing Guide
- Module and Topic Overviews
- Lesson Materials
  - Teacher Lesson Plan
  - Student Lesson
  - Student Assignment
  - Assignment Answer Key
- Assessment
- Family Guide

### Sample Materials

- Available for 8 courses
  - MS: Grades 6-8, Accelerated 6 & 7
  - HS: Alg 1, Geo, Alg 2
- Course Overview and Pacing Resources, along with Instructional Materials, available for Topic 1

# Webinars and Resources

## Exploratory Webinars

### Instructional Materials Release for K-12 Math

- August 25, 2020
- **Target Audience:** LEAs  
Mathematics Stakeholders

### Adopting and Getting Started with Carnegie Learning Texas Math Solution

- September 9, 2020
- **Target Audience:** LEAs  
Mathematics Stakeholders

## Getting Started

### Implementation Workshop Series

- Cohort 1: September 23rd/24th
- Cohort 2: October 28th/29th
- **Target Audience:**
  - Implementing teachers
  - Implementing instructional leaders

### Integration and Getting Started

- TBD: Coming Soon!
- **Target Audience:**
  - LEAs Mathematics Stakeholders
  - IT Team

## On-Demand Support Modules

### Onboarding and Program Support

- Coming Soon!
- **Target Audience:**
  - Implementing teachers
  - Implementing instructional leaders

### Virtual Teaching Support

- Coming Soon!
- **Target Audience:**
  - Implementing teachers
  - Implementing instructional leaders

# Live Implementation Workshop Series



**TEXAS MATH SOLUTION**

## Texas Professional Learning Center

**We're all in.** We live to help math educators realize their dream mathematics classroom — one where teachers facilitate, students participate, and meaningful learning happens. We understand that school, as we know it, has changed dramatically this year, but we want you to know that you are never alone. As your partner, we are committed to getting you started with our Texas Math Solution, sharing onsite and virtual learning strategies, and providing continuous support throughout the school year.

**We're here to help.**

We are here for you with resources, guides, and both live and on-demand learning experiences to help you make the most of our Texas Math Solution this school year. Check out all of the support available to you below.



This 4-session series is focused on equipping you with the knowledge and tools you need to successfully implement the Carnegie Learning Texas Math Solution. In these live, interactive sessions, you will:

- Learn how to effectively implement Carnegie Learning's Texas Math Solution on a day-to-day basis
- Plan for both synchronous and asynchronous student learning experiences
- Navigate the additional resources available to teachers, students, and families and the intent behind them
- Have a live Q&A with Carnegie Learning Master Math Practitioners

# On-Demand Support Modules - Coming Soon!

## Onboarding & Program Support

Designed to support you as you get started with the Carnegie Learning Texas Math Solutions

- Getting Started with Carnegie Learning's Texas Math Solution
- Our Instructional Approach: The Pedagogy Behind Our Lesson Design
- Transitioning from TRS to CL Texas Math Solutions
- Supporting Students with a Variety of Needs: Differentiation & ELL Support
- Using MATHia Data to Drive Instruction

## Virtual Teaching Support

Designed to support you as you design and facilitate virtual learning experiences

- Virtual & Hybrid Teaching Best Practices
- Facilitating Student Collaboration in the Virtual World
- Creating a Positive Class Culture Online
- Supporting Small Group Instruction & Differentiation
- Providing Feedback in the Virtual Classroom



# Get Started Today

[discover.carnegielearning.com/THL3.html](https://discover.carnegielearning.com/THL3.html)

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Click **Get Started Today** to learn more or schedule an implementation meeting.

Is your school implementing? Click **Join a Workshop** to sign up for a live implementation workshop.

[Get Started Today](#) [Join a Workshop](#)

## Get Started Today

- Schedule an implementation meeting
- Carnegie Learning's onboarding team will provide you with the resources and support your district needs to get started



# Join a Workshop

[discover.carnegielearning.com/THL3.html](https://discover.carnegielearning.com/THL3.html)

**CL TEXAS MATH SOLUTION**

## Carnegie Learning Texas Math Solution

### Quality Math Instruction for 6-12 Texas Educators

The Texas Education Agency (TEA) has partnered with Carnegie Learning to provide educators and students with free access to its highly rated middle school and high school content to support continuous learning efforts in the 2020-21 school year and beyond. Educators who choose to participate will receive access to TEKS-aligned curriculum materials and adaptive math learning software, MATHia®, all customized for Texans to access high quality content that works seamlessly between remote and in-classroom environments.

Click **Explore the Materials** to access the Texas Math Solution published materials for each course.

Click **Get Started Today** to learn more or schedule an implementation meeting.

Is your school implementing? Click **Join a Workshop** to sign up for a live implementation workshop.

[▶ Explore the Materials](#)   [▶ Get Started Today](#)   [▶ Join a Workshop](#)

## Join a Workshop

- Access Carnegie Learning's Texas Professional Learning Center
- Sign-up for an Implementation Workshop Series
- Access On-Demand Support Modules





What if?

My question is...

Have you thought  
about?

Could we?





# Contact Information

Monica Brewer, M.S.E.

[Monica.brewer@tea.texas.gov](mailto:Monica.brewer@tea.texas.gov)

[GTED@tea.texas.gov](mailto:GTED@tea.texas.gov)

512-475-0626