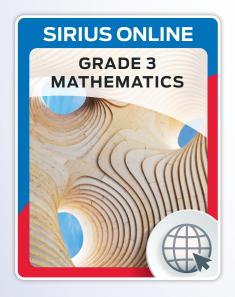


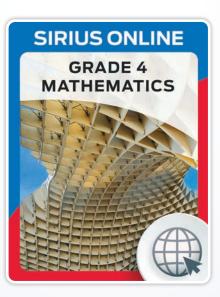
# Sirius Online

# **TEACHER'S GUIDE**

How to Implement Sirius Online in Your Classroom

# **Math Grades 3-5**







## **Welcome Educators**

Welcome to the *Sirius Online* **Grades 3–5 Math Teacher's Guide**—a reference that helps you understand what resources you get and how you can best use them. We crafted it to save you time and help you avoid difficulties.

- *Sirius Online* is a supplement that **fills gaps** in adopted instructional materials by providing essential TEKS instruction and authentic STAAR 2.0 practice.
- Use Sirius Online **alongside your core curriculum** to ensure that your students learn exactly what they need to know and do on STAAR 2.0—its content (word problems), context (online and new question types), and complexity (rigor).
- With Sirius Online, your students will focus on the essential TEKS, including how
  they are tested in STAAR. By helping students apply the necessary skills and
  concepts to solve STAAR word problems, Sirius adds depth and rigor to your
  curriculum.

We are honored to support you in helping your students succeed. Please contact us for assistance. **And thanks for all you do!** 



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# **Contents**

#### **INTRODUCING SIRIUS ONLINE**

Why	/ Siriı	us Online?	. 2
Eng	lish-S	Spanish Courses	. 2
Get	ting S	Started	. 3
A Co	ompr	ehensive Supplement	. 4
Usir	ng Sir	rius for Different Contexts	. 4
Siriu	ıs On	oline Supports Differentiation and the RtI Framework	. 5
Assi	ignm	ent Planning and Pacing Guide	. 7
Thr	ee As	ssignment Types	. 9
		nodations	
		Help	
US	IN	G SIRIUS ONLINE	
1	Intro	oduction	13
		Course Contents	
		ELPS Teacher Resources	
		Planning Guide for Texas OER, <i>Bluebonnet Learning</i>	
		Welcome Letter	
		STAAR Item Types	
2		essments	
		Skills Check: Prerequisite Assessments	
	2.2	Cumulative Review: Readiness STAAR 2.0	<u>16</u>
	2.3	Spiral Readiness Review: Cumulative STAAR 2.0 Assessments	16
	2.4	Practice Test: Full-Length STAAR 2.0 Assessment	16
3	Sup	port for ALL Tested TEKS	17
		Readiness TEKS	
		Supporting TEKS	
4	Add	itional STAAR 2.0 Preparation	
		Mixed Review STAAR Prep (MRSP)	
		nning <i>Sirius Online</i> Implementations	
6	Tips	for Using Sirius Online	19
	6.1	Make a Commitment to Use Sirius Online	19
	6.2	Use Instruction and Practice for Ungraded Activities	19
		Release Assignments for Student Review	
		Build Teacher-Student Relationships	
		Focus on Problem Solving	
7		cluding Questions	
		How Do I Get Students' and Parents' Support?	
	7.2	What Evidence Supports the Use of Sirius Online?	22
Siriu	us Co	ompanion Workbooks <u>back co</u>	vei

# INTRODUCING SIRIUS ONLINE

# Why Sirius Online?

#### **TEKS-Focused Instruction**

Sirius Online supplements enhance existing instructional materials by providing essential TEKS instruction and authentic STAAR 2.0 practice. Sirius Online is used along with a core curriculum because it fills instructional gaps in adopted materials by closely matching STAAR 2.0 in all its details: content, format, and rigor.

#### **Problem-Solving Focus**

Because the STAAR math tests focus on problem solving, Sirius <u>adds depth and rigor</u> by helping students apply math skills and concepts to solving problems. Learning to be a better problem solver is hard work. Because thinking is invisible, we cannot know for sure when students are thinking, and we cannot force students to think. But teachers can create the conditions that encourage and support thinking more deeply.

#### **High-Quality Feedback**

Effective feedback enables learning and relies upon a culture that is open to using feedback to impact future choices—to feedforward. This is where Sirius Online's robust and high-quality feedback comes in. The comprehensive feedback options are designed to empower students through choice and to be supported by teachers who can focus on student learning.

# Choices empower students to become more active thinkers and own their learning. Sirius Online choices with actional feedback include: Show Hint Gives a helpful tip before answering a question. Sample Answer Gives a full solution or explanation. Submit Answer Gives immediate feedback on the answer selected. Try Again Gives another try after students receive actionable feedback. Show Correct Answer Gives the correct answer and its feedback.

# **English-Spanish Courses**

Classrooms with students benefiting from Spanish language content should select the English-Spanish math courses. This course provides all assignments in both languages with the same math TEKS in both Spanish and English. Spanish translations closely match one-to-one with the English content with only minor adaptations when needed.

## **Getting Started**

#### **Sirius Online System Tutorials**

After creating a class in the *Sirius Online* platform, you can add the following *Sirius Online* Tutorials. These short video-based modules include an Introduction for teachers, an overview of reporting features for administrators, and a tools tutorial for students. You can find these tutorials and more resources on our <u>Training and Professional Learning page</u>.



#### **Introduction to Sirius Online for Teachers**

The introduction eLearning module takes only about 20 minutes to complete and will set you up for success. Pause the video at any time to act on what you learn, such as to add courses, set up classes, and make assignments. You can print a certificate to show completion.



# Introduction to *Sirius Online* for Education Leaders

Sirius Online includes reporting features that administrators can access. The education leaders eLearning module provides an overview of the reports that administrators can see in their Sirius dashboard.



#### **Sirius Online Tools Tutorial for Students**

Add the Sirius Student Tutorial to each of your classes to introduce students to *Sirius Online* tools. Sirius has <u>the same tools</u> found in the online STAAR tests. However, Sirius tools are slightly different in that they are easier to find and use with just one click—students don't have to use submenus. Use this tutorial with your students to familiarize them with the tools.

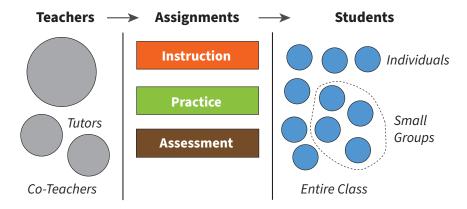
## **A Comprehensive Supplement**

Sirius Online serves as a supplement to existing instructional materials by providing essential TEKS instruction and authentic STAAR 2.0 practice. Using Sirius adds **depth and rigor** to your curriculum.

Sirius Online is a comprehensive supplement with three distinct assignments:

- **Instruction** Explicit TEKS instruction uses the Gradual Release of Responsibility (GRR) framework.
- **Practice** Authentic STAAR 2.0 practice empowers students with scaffolds and feedback.
- **Assessment** Authentic STAAR 2.0 test items delivered with similar STAAR tools / features.

Teachers and co-teachers can easily customize assignments for individual students, small groups, or the entire class.



# **Using Sirius for Different Contexts**

Sirius offers easy-to-use, adaptable resources for multiple implementation models.

#### **Multiple Implementation Models**

TIME FRAMES			
Fall Semester  ■ Beginning of Year  ■ First 9-Week Benchmark		Spring Semester  • Mid-Year Benchmark  • After Spring Break	
ABILITY LEVELS	GRO	UPS	INSTRUCTION
<ul> <li>Does Not Meet Grade Level</li> <li>Approaches Grade Level</li> <li>Meets Grade Level</li> <li>Masters Grade Level</li> </ul>	<ul><li>Whole Class</li><li>Small Group</li><li>Partners</li><li>Individuals</li></ul>	S	<ul><li>Teacher-Led</li><li>Student-Centered</li><li>Asynchronous</li></ul>

<sup>\*</sup> The Gradual Release of Responsibility (GRR) framework promotes a careful and deliberate transition of cognitive tasks, from teacher modeling to shared responsibility between teachers and students, and finally to independent practice and application by students.

# **Sirius Online Supports Differentiation**

Sirius Online supports differentiation by empowering teachers to curate:

- What content to assign based on topic, TEKS, or student needs.
- **Who** to assign content to: whole class, small groups, individuals.
- Pacing of how many assignments and how fast they get completed.
- **How** assignments are conducted: from teacher-led to student-centered.

### Sirius Online and the RtI Framework

A practical approach to organizing the implementation of *Sirius Online* is using the Response to Intervention (RtI) model with Tier 1, 2, and 3 pathways.\*

#### **Sirius Online Provides Consistent Instructional Routines**

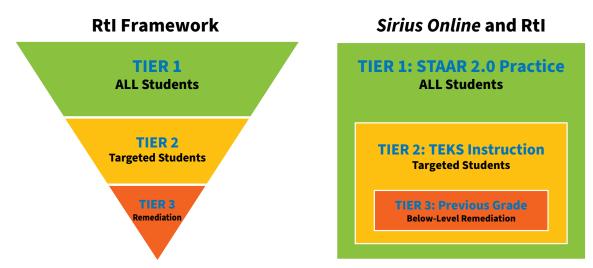
Research shows strong support for the RtI framework in improving **learning for all students.** With *Sirius Online*, you can create consistent instructional routines that support both Tier 1 and 2 students.

#### The Need for High-Quality Tier 1 Instruction

**All students** benefit from instruction that is aligned with exactly what students need to *know* and *do* on the STAAR tests. Students should get regular exposure all year long to <u>learn the STAAR-tested thinking.</u> This includes developing fluency with online testing tools and features.

#### **Aligning Tier 2 Support with Classroom Instruction**

**Tier 2 and Accelerated Instruction students** often receive instruction that is unrelated to classroom instruction. *Sirius Online* empowers teachers to guide group and individual interventions for struggling Tier 2 students. With *Sirius Online*, targeted students get explicit and systematic instruction in the essential TEKS.



<sup>\*</sup> Response to Intervention (RtI) is a multi-tiered approach to early identification and support for students with learning and behavior needs. It involves three tiers: Tier 1: universal interventions for all students, Tier 2: targeted group interventions for those needing additional support, and Tier 3: intensive individual interventions for students requiring specialized assistance.

#### **TIER 1** STAAR 2.0 Practice to Show Progress for ALL Students

The new Texas accountability system emphasizes <u>progress for all students</u> and rewards moving students to Meets and Masters Grade Level. So throughout the year, all students should receive regular, authentic STAAR 2.0 practice, as well as mixed and spaced review (Cumulative Review). This helps students transfer what they learn in class to the **format and rigor** of the online STAAR test.

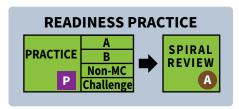
#### **Scaffolded Practice Supports: Empowerment with Choice**

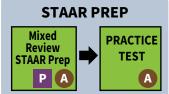
Solving STAAR problems requires complex reasoning. *Sirius Online* empowers students to become more active and better problem solvers by giving students choices in how they navigate each **Practice** problem. Choice helps students feel more in control of their learning and encourages them to take greater ownership.

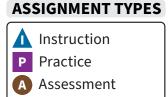
Students can choose scaffolded supports with rich feedback, including Hint, Sample Answer, and Show Correct Answer.

#### **A Practice Test Builds Confidence**

In the weeks before the STAAR test, use the Practice Test as a full-length "dress rehearsal." This builds test-taking confidence and provides high-quality data.



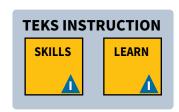




#### TIER 2 TEKS Instruction for Targeted On-Level Support

Sirius Online supports targeted TEKS-based instruction with on-level resources teachers can use to support struggling and Accelerated Instruction students.

In *Sirius Online* Reports, teachers can easily make individual or group assignments by TEKS to target specific needs.



#### Remediation for Intensive Below-Level Support

Sirius Online Tier 3 implementations are mostly limited to identifying key below-level prerequisite skills (Skills Check) needed for on-level Readiness TEKS instruction.

Previous grade-level courses are available for free, and their Readiness TEKS lessons can help students with prerequisites.



# **Assignment Planning and Pacing Guide**

Sirius Online can be used over different time frames and for different needs. The table below shows two use cases: all students (Tier 1) and targeted students (Tier 2). Both uses can be combined by assigning additional resources for Tier 2 students.

Sirius Online Assignments		ALL Students TIER 1	Targeted Students TIER 2
		(0.5 h / wk)	(1 h / wk)
READINESS ASSESSMENT			
Skills Check: PRE-ASSESS	A	<b>©</b>	+
DIAGNOSTIC TEST	A	<u>o</u>	<b>O</b>
INSTRUCTION & PRACTICE			
SKILL#	lack	Q	+
LEARN	$\Lambda$	O	<b>✓</b>
PROBLEM SOLVING	$\Lambda$	+	<b>✓</b>
PRACTICE	P	<b>✓</b>	<b>✓</b>
SPIRAL REVIEW	A	<b>✓</b>	<b>✓</b>
SUPPORTING PRACTICE	P	+	<b>(</b> )
POST ASSESSMENT & PREP			
Skills Check: POST-ASSESS	A	<b>(</b> )	+
POST TEST	A	<b>(5)</b>	<b>(</b>
Mixed Review STAAR Prep	PA	<b>✓</b>	<b>✓</b>
PRACTICE TEST	A	<b>✓</b>	<b>✓</b>
ASSIGNMENT TYPES	PRIORITY KEY	1	
<b>1</b> Instruction	✓ Recommended: the suggested minimum		
P Practice	Encouraged: helpful in certain contexts		
A Assessment	Optional: when time permits		

#### **INSTRUCTION & PRACTICE DESCRIPTIONS**

**SKILLS** assesses previous-grade prerequisites for each Readiness TEKS.

**LEARN** instruction reinforces key skills and concepts for each Readiness TEKS.

**PROBLEM SOLVING** gives scaffolded instruction and practice in solving STAAR items.

**PRACTICE** provides authentic STAAR 2.0 practice with robust scaffolds and feedback.

**SPIRAL REVIEW** provides comprehensive mixed STAAR practice for spaced review.

#### **FIER 1 ON-LEVEL FOR ALL STUDENTS**

Authentic and rigorous STAAR 2.0 practice and assessment so ALL students learn how to solve STAAR word problems.

#### TIER 2 ON-LEVEL FOR TARGETED STUDENTS INSTRUCTION

Scaffolded TEKS instruction gives Accelerated Instruction and struggling students an alternative approach for the most-tested TEKS.

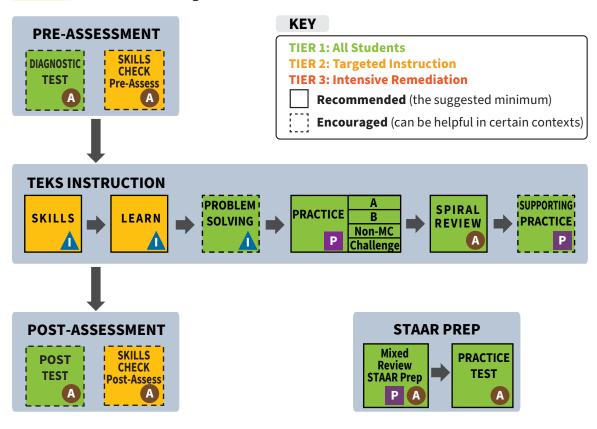
#### Visualizing How Sirius Online Assignments Interrelate

Sirius Online is a comprehensive resource that supports many distinct student needs. Below is a visualization to show how math assignments can be coordinated for **on-level** and **below-level** instruction.

#### **ON-LEVEL RESOURCES**

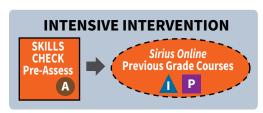
TIER 1 — All students get rigorous authentic STAAR 2.0 practice.

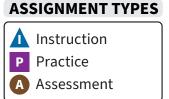
TIER 2 — Some students get essential TEKS skills instruction.



#### **BELOW-LEVEL RESOURCES**

— Reinforce key foundational math skills.





# **Three Assignment Types**

*Sirius Online* is a comprehensive supplement with **Instruction, Practice,** and **Assessment.** All *Sirius Online* assignments fit into one of these three categories, and each serves different instructional purposes.

Assignment Type	Question Types	Student Feedback	Delivery Mode	TEKS Alignment
Instruction 🛕				
Explicit TEKS instruction and STAAR problem solving using the Gradual Release of Responsibility (GRR) model.	STAAR and non-STAAR format items	Immediate correct or incorrect	Practice mode	Lesson level
Practice P				
Authentic STAAR 2.0 items with instructional scaffolds to support problem solving.	STAAR 2.0 items only	Immediate with support scaffolds	Practice mode	Each item
Assessment (A)				
Authentic STAAR 2.0 items with all online STAAR tools.	STAAR 2.0 items only	No immediate feedback	Test mode	Each item

#### **Question Formats**

The focus of *Sirius Online* **Instruction** is on learning the TEKS skills and concepts. Therefore, individual questions may not be STAAR 2.0 items or even use STAAR item formats. In contrast, all *Sirius Online* **Practice** and **Assessment** are authentic STAAR 2.0 items in content, format, and rigor.

#### **TEKS Alignments**

**Instruction** assignments are TEKS-aligned as a whole but may also include prerequisite TEKS. In contrast, each item in **Practice** and **Assessment** assignments is TEKS-aligned, just like STAAR.

#### **Assessments Use Test Mode**

Unlike **Instruction** and **Practice**, all *Sirius Online* **Assessments** are **delivered in Test mode**—students do not receive any immediate feedback or Hints, and the final answer for each question is scored when the final Submit button is pressed. All Assessments are **auto-scored**.

## **Accommodations**

Sirius Online provides multiple STAAR test accommodations so students can routinely, independently, and effectively use these designated supports during classroom instruction and classroom testing. These accommodations satisfy the Texas Education Agency's student eligibility criteria requirements.

Regular use of these accommodations throughout the school year can help students build fluency with the accommodations features of the STAAR exam, leading students to use those features more effectively on exam day.

All *Sirius Online* accommodations are set to "on" by default. This gives students greater control of their learning process, supporting a Universal Design for Learning (UDL) experience. Review the accommodations settings for assessments to ensure that your students receive the supports they need.



Teachers can turn any of the above accommodations on or off for any student <u>by</u> <u>class</u>. So, to create separate RLA and math accommodations, the students must be in separate classes. The basic calculator is the only math accommodation.

Many accommodations are especially helpful for Emergent Bilingual students who are preparing to take tests in English.

#### **Accommodation Features**

	ONLINE ACCOMMODATION FEATURES	STAAR	Sirius Online
(h)	<b>Text-to-Speech</b> (TTS) allows students to have the computer read aloud the words on the screen while highlighting them.	>	>
	<b>Content and Language Supports</b> provide pop-up supports with simpified language, definitions, and images for STAAR assessment passages and items.	1	
<u>teh</u>	<b>Spelling Assistance</b> flags misspelled words in student writing and offers replacements. This encourages reluctant student writers to write more.	1	/
	<b>Translation</b> gives text translations in over 100 languages. Students can also have these translations spoken aloud using Text-to-Speech. NOTE: Translate is unavailable for all assessments.		1

## Reports

Sirius Online has reports for teachers and administrators that offer distinct but mutually supportive perspectives: **Course Reports** and **Standards Reports.** Each report provides insights into students' performance and usage.

**Course Reports** use a <u>Table of Contents</u> view divided into smaller content sections



or assignments. The Course Report has three views with **Performance, Usage,** and **Engagement** shown for each assignment by student, class, teacher, school, and even by district.



**Standard Reports** use the <u>course TEKS</u>. You can analyze students' data via views for **Performance**, **Usage**, and **Progress**.

Sirius **performance levels** match STAAR with cut score percentages for Does Not Meet, Approaches, Meets, and Masters Grade Level.



# **Getting Help**

#### Read On!

The Going Deeper section of this Teacher's Guide begins on the next page. It provides more in-depth information about *Sirius Online* as well as recommendations on how to implement *Sirius Online* in your classroom.

#### **Access Platform Support**

*Sirius Online* Support is available directly inside the platform through the Support tab to the left of your profile image.



#### **Check the Sirius Knowledge Base**

Our comprehensive, searchable knowledge base provides detailed step-by-step support instructions, including videos. It is available 24 hours/day and 7 days/week via our website here.

#### **Connect with Sirius Professionals**

You can quickly connect with Sirius Technical and Customer Support in multiple ways:

#### **Phone**

(800) 942-1379, Option 2. Monday-Friday, 7 am-5 pm CT

#### Chat

#### www.SiriusEducationSolutions.com

You can access the chat function in the bottom right corner of our website anytime day or night. Use chat for product support, to locate your sales representative, or to get product or order information.

#### **Email**

Support@SiriusEducationSolutions.com

#### **Online Tickets**

#### https://Sirius4Learning.zohodesk.com/portal/en/home

If you would like to track a technical or customer support issue, you can create an online ticket to view and manage the progress of your inquiry.

# USING SIRIUS ONLINE

This section provides more in-depth information about *Sirius Online* as well as recommendations for ways to implement *Sirius Online* in your classroom.



## Introduction

In addition to this Teacher's Guide, the Introduction section of your course includes several helpful resources:

#### 1.1 Course Contents

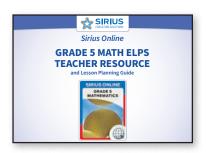
The Contents are broken into two sections. A Summary shows the course organization and a Detailed View lists every assignment in the course.

The TEKS for each assignment is included unless the assignment has multiple TEKS. Use the contents to help you plan when to use *Sirius Online* assignments.



#### 1.2 ELPS Teacher Resources

A guide with teacher resources for differentiating LEARN instructional assignments for all proficiency levels. These guides are easy to use to enrich instructional lessons for all students, while catering to the diverse needs of Emergent Bilingual students.



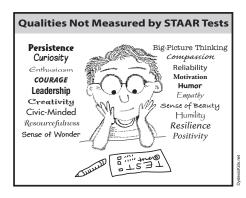
# 1.3 Planning Guide for Texas OER, Bluebonnet Learning

To support customers using Texas Open Education Resources (OER), *Bluebonnet Learning*, Sirius has created a planning guide that shows how you can integrate *Sirius Online* resources into the *Bluebonnet Learning* core curriculum.



#### 1.4 Welcome Letter

We encourage using this Welcome Letter activity to help students process their feelings about STAAR tests. STAAR tests measure a limited range of capacities, as shown by this comic.

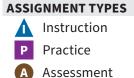


Assigning the Welcome Letter to your students will help provide context and motivation.

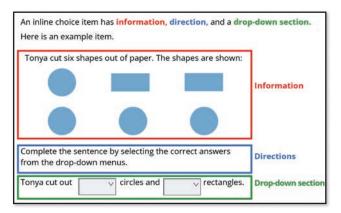
We know that students who learn exactly what is tested will indeed succeed and show progress.

#### 1.5 STAAR Item Types P





Getting Familiar with STAAR Item Types are introductory lessons about the new STAAR 2.0 questions. Starting with these instructional lessons is an excellent way to set students up for further practice in the course.



These lessons explain the different components of the STAAR questions, including information, directions, and actions. The lessons also explain strategies students can use to answer the STAAR item types.

Students will practice these items throughout the course, so familiarity will become fluency, which then leads to confidence.

You can assign all the Getting Familiar lessons at one time, but we suggest spreading them out and using them with teacher-led instruction.

# **2** Assessments

*Sirius Online* includes several assessments for different purposes. Below is a description of each type of assessment with an explanation for when each assessment can be used and the information each provides to both teachers and students.

All *Sirius Online* assessments are **auto-scored** and **delivered in Test mode**—students do not receive any immediate feedback or Hints, and the final answer for each question is scored when the final Submit button is pressed.

NOTE: If students **Exit** out of an assessment before pressing **Submit**, their work is <u>saved</u>. Students can return to a saved assessment and <u>change any answers</u> before pressing Submit. To limit cheating, we recommend that all assessments be given in class and ideally under simulated STAAR **testing conditions**. By exposing students to conditions similar to those they will experience when taking the actual STAAR test, you give them an opportunity to rehearse for the often more stressful testing-day context. This simulation also results in more-accurate performance data.

#### 2.1 Skills Check: Prerequisite Assessments

Many students experience gaps in essential skills and concepts that impair their ability to learn grade-level skills. The Skills Check assessments are a useful tool for teachers to identify the gaps in their students' knowledge.

Skills Check items are non-STAAR format and provide a <u>quick formative assessment of below grade-level prerequisite skills</u> for the key on-grade TEKS. These should not be used for grading.

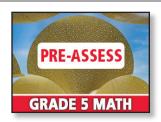
#### SKILLS PRE-ASSESS (A)

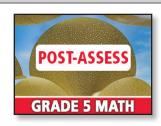
- Identifies potential gaps in key prerequisite skills from the previous grade
- Based on the Pre-Assess results, teachers can assign the corresponding Skill Checks to identify the key skills more precisely for Tier 3 interventions

#### **SKILLS POST-ASSESS (A)**



- A parallel form to the Skills Pre-Assess assessment
- Can be used after the Skills Check
- Compare performance with results from the Skills Pre-Assess to measure progress
- Can identify skills that may benefit from additional review and reinforcement

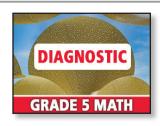




#### 2.2 Cumulative Review: Readiness STAAR 2.0

Mini STAAR 2.0 Assessments are useful tools for teachers to check and monitor students' progress towards mastery of grade-level Readiness TEKS.

DIAGNOSTIC TEST (A)	POST TEST (A)
Efficiently assesses all Readiness TEKS with authentic STAAR 2.0 items	A parallel form to the Diagnostic Test, assessing all Readiness TEKS
• 12–13 questions, in the same format as the STAAR test	• 12–13 questions, in the same format as the STAAR test
Use as a quick pretest or baseline with one item for each Readiness TEKS	Can monitor progress and identify     Readiness TEKS for additional review





# 2.3 Spiral Readiness Review: Cumulative STAAR 2.0 Assessments A

After each module, *Sirius Online* provides *mixed* and *spaced review* of Readiness TEKS with authentic STAAR 2.0 items. Items covering different TEKS are interleaved in an unpredictable sequence, to help students move from the individual-TEKS focused learning, to becoming flexible STAAR problem solvers.



There are six Spiral Readiness Review assessments, one for each module. Each one focuses on the Readiness TEKS from that module and includes a spiral review of some Readiness TEKS from previous modules.

# 2.4 Practice Test: Full-Length STAAR 2.0 Assessment (A)

One full-length authentic STAAR test matches the STAAR redesign blueprint closely in all details. This test does not include additional field test items. It can provide insights into your students' likely STAAR test performance.

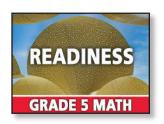




# **Support for ALL Tested TEKS**

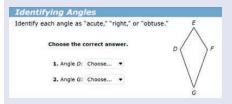
#### 3.1 Readiness TEKS

For Readiness TEKS, which are the most tested TEKS, Sirius Online provides comprehensive skills checks, interactive instruction, problem-solving instruction, and a great variety of authentic STAAR 2.0 practice.



#### SKILLS CHECK A



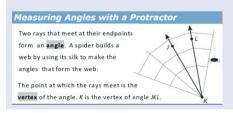


Quick check of key prerequisites for each LEARN

- "Warm Up" of 3 key skills of previous-grade TEKS
- Model of solved example with 6 exercises
- Immediate feedback for reinforcement
- Helps identify and support knowledge gaps

#### LEARN A



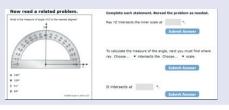


Systematic TEKS instruction in the skills and concepts that students apply in PRACTICE

- Full TEKS review and reinforcement
- Step-by-step examples with full explanations
- Scaffolded Your Turn activities

#### PROBLEM SOLVING **A**



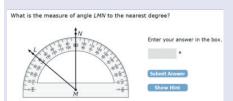


Scaffolded instruction and practice in how to understand and solve STAAR word problems

- Builds problem-solving skills and confidence
- Engages both struggling and strong students
- Shows common student errors with alternatives.

#### PRACTICE P





Lots of authentic STAAR 2.0 practice!

- Set A in an increasing order of difficulty
- Set B is parallel to set A (same problems with different numbers and scenarios)
- Extra non-multiple choice practice problems
- Challenge with complex STAAR problems

**Readiness Instruction and Practice** is auto-scored with immediate feedback:

- Assign all or some components to all classes in one bulk assignment
- Assign all or some components to some classes
- Assign all or some components to groups within classes

#### 3.2 Supporting TEKS

Sirius Online provides authentic STAAR 2.0 practice for each Supporting TEKS, with a greater emphasis on the most-tested TEKS. Some supporting TEKS have Problem Solving lessons along with practice. Supporting Practice should be a lower priority than the Readiness STAAR Practice.





# **Additional STAAR 2.0 Preparation**

#### Mixed Review STAAR Prep (MRSP) P



This intensive review is designed for the 4 to 6 weeks before the STAAR test. It takes less than 10 minutes a day and addresses all Readiness TEKS and the key Supporting TEKS. The MRSP focuses on the most-tested STAAR problems—helping students get ready for STAAR 2.0. Also included are weekly Quizzes and a Readiness Test.

For additional suggestions on implementing Mixed Review STAAR Prep, watch this 3-minute Overview video here.

# 5

# Planning Sirius Online Implementations

*Sirius Online* was designed to help <u>ALL students</u> learn the tested TEKS in the context of how they are tested in STAAR. *Sirius Online* is a comprehensive supplement that is easily adapted for a wide range of use cases and student needs.

#### **Questions to Guide Planning**

Intentions	What are our goals?
Evaluation	What does success look like? How will we measure it?
Obstacles	What are our primary needs or challenges?
Timing	Where does the student instruction fit into the school year? How can we integrate <i>Sirius Online</i> throughout the school year?
Integration	Where does Sirius Online integrate into the curriculum/classes?
Coordination	How does Sirius Online connect to the core curriculum?
Needs	What are the instructional pathways for different students?

We strongly encourage implementations that extend throughout the full school year. Research shows that "cramming" is not effective for complex cognitive tasks.

# **6** Tips for Using Sirius Online

#### 6.1 Make a Commitment to Use Sirius Online

New habits do not just happen. They take deliberate effort. We encourage teachers to make a commitment to use *Sirius Online* (ideally each week) and to designate a certain day and time to assign, review student work, and plan for next steps.

Rhythm and routine can be powerful supports in encouraging students to apply themselves. Your internal commitment to use *Sirius Online* (something new) will be sensed and respected by students. Students tend to follow their teachers.

# **6.2 Use Instruction and Practice for Ungraded Activities**

We highly recommend that **Instruction** and **Practice** assignments be ungraded. Research shows that with low-stakes activities, students are more likely to take risks, make mistakes, and use the feedback to get better. In contrast, we recommend using **Assessments** to help students focus on getting the correct answer: performing instead of practicing.

Although teachers can convert **Practice** assignments into **Assessments** (which withhold feedback), we suggest limiting this approach to special situations, such as when students are confident that they know the material.

#### **6.3 Release Assignments for Student Review**

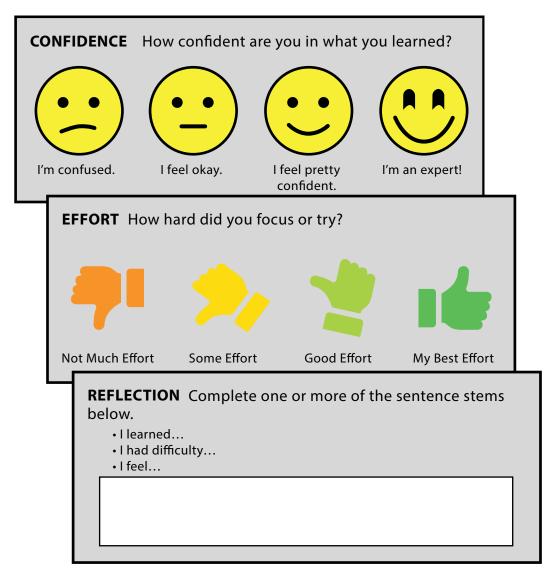
We encourage teachers to give students opportunities to review their work in assignments. You can help students develop the habit of using the Practice – Immediate Feedback mode to analyze the items they got correct and/or incorrect. In this mode, students receive access to full solutions as well as their Highlights, Sticky Notes, and feedback comments from the teacher. For assignments you plan to assess, you can delay their release until all students have submitted.

#### **6.4 Build Teacher-Student Relationships**

We encourage teachers to routinely assign the student Self-Evaluation at the end of each **Instruction** and **Practice** task. This exercise allows teachers to gauge students':

- **Confidence** in what they have learned/practiced,
- Effort, or how hard they tried, and
- **Reflections**, through short written responses.

*Sirius Online* **Instruction** and **Practice** assignments ask students to reflect on their work with three end-of-assignment unscored questions:



Teachers can respond directly to each student's written response to encourage, support, and challenge them individually.

Many students are poor judges of their **learning** and/or **effort**. Teachers should look for students who are particularly off—meaning their **performance** does not match their confidence, and/or their **effort** does not match their **time on task**.

Understanding and working with students' self-perceptions can be a key factor in helping change student behaviors. Research shows that students' self-efficacy or beliefs may be the most important factor in student engagement.

Teachers can share observations including student written responses (anonymously) with the entire class. This shows that the teacher is reviewing student work and focusing on productive problem-solving behaviors instead of scores. When students feel seen, they tend to engage more deeply.

#### 6.5 Focus on Problem Solving

#### **STAAR Math Tests Are Problem-Solving Tests**

STAAR math tests <u>emphasize problem solving</u>. So instead of recall or number computations, students need to apply math skills and concepts to solve word problems, including real-world applications. Thus, STAAR test questions demand careful reading, identifying given information and what is being asked, selecting and executing math procedures, analyzing answers, and navigating new STAAR 2.0 question types as well as the online testing platform.

#### Learning Problem Solving Is a Process: It Takes Time and Persistence

Helping students become better and more confident STAAR problem solvers is challenging and takes time. The learning process for problem solving is similar to riding a bicycle—students <u>learn by doing it themselves</u>. *Sirius Online* has ample opportunities for students to practice with scaffolds, encouraging them to make choices and take greater ownership of the problem-solving processes.

<u>Thinking is a skill</u>, and some students will be reluctant to apply themselves to diligently solving problems. But you cannot do the work for students. Some teachers need to be careful to monitor and limit the help they provide students to avoid undermining the necessary struggle. Because thinking is invisible, we cannot know for sure when students are thinking. We can only create the conditions that encourage and support them to think more deeply.

#### **Three Key Thinking Habits Teachers Can Promote**

To promote careful thinking and problem-solving, we suggest teachers focus on positive <u>affirmations in response to three common bad thinking habits</u> (and related limiting attitudes). Teachers can repeat each phrase regularly, such as after a student request for help.

Take time to think.	Encourage students to slow down and resist impulsivity.
Keep at it.	Encourage students to try again and practice persistence.
Consider all options.	Encourage students to be systematic and not rigid.

For a singular instructional goal, we suggest trying strategies that <u>slow students down</u>, so they <u>think more carefully</u>. Most of human thinking happens fast and automatically. Careful and deliberate thinking takes time and effort.

# Concluding Questions

#### 7.1 How Do I Get Students' and Parents' Support?

<u>Your belief that Sirius will help your students</u> is the key, because this belief will be transmitted to students and parents in everything you say and do. Students and parents trust you and will see your sincere efforts to help.

No surprise, the more you understand *Sirius Online*, the better you can use and appreciate its value in supporting your students as they learn the essential tested TEKS and practice them in the exact ways they are tested in STAAR 2.0.

Yes, *Sirius Online* can be an efficient way to improve your students' STAAR performance. But it also allows you to share a process for getting better at <u>STAAR-tested thinking</u>. All students can use these methods to improve their thinking skills and show progress on the STAAR test. And this type of thinking will serve students well beyond the classroom.

When talking with students and their parents, it is helpful to know how they perceive STAAR and testing in general. Because STAAR is a requirement, avoid negative talk about STAAR tests. Instead, focus on each student's specific needs. Share that this is a different kind of test in that it is mostly made up of stimulus-based questions. Also stress that with *Sirius Online*, students can learn effective thinking strategies. They will also gain resilience as they take advantage of numerous opportunities to practice and refine their understanding of math and STAAR-style problem solving.

Complaining about STAAR to students can give them an excuse not to work hard to develop their capacities. And some students are looking for an excuse!

#### 7.2 What Evidence Supports the Use of Sirius Online?

Sirius Online is research-based. Because it is grounded in research and design principles, its resources are effective and easy to use to <u>support teachers</u> in <u>helping students</u> learn the essential TEKS and succeed on STAAR tests.

#### Sirius has partnered with McREL International

to research the following expected outcomes in students':



- STAAR test performance
- Engagement and motivation with STAAR content
- Confidence in answering complex STAAR questions
- Self-efficacy about improving STAAR test performance

Sirius Education Solutions is also conducting <u>ongoing user-experience</u> and <u>efficacy research</u> to continuously improve the student and educator experience.

# **Sirius Companion Workbooks**

#### **Blended Learning that Is Easy to Use**

Sirius Online courses and our complementary print resources have similar organization and content, so you can easily move between each medium and adapt to best **serve the needs of your unique students.** 

Many struggling students often take greater ownership of their learning when they can write in their OWN workbooks.

Additionally, students are better able to **transfer their thinking** processes to an online format when they see and experience the same content in both the print and online formats.

Sirius Online's comprehensive math courses integrate all the content from our print-based workbooks, and more: digital Skills Review, Mixed Review STAAR Prep, and a full-length Practice Test. And with online resources, students get immediate feedback while teachers get auto-scoring and powerful reporting.



You can register <u>here</u> to **examine our printed math workbooks** as eBooks.

