SIRIUS
EDUCATION SOLUTIONS

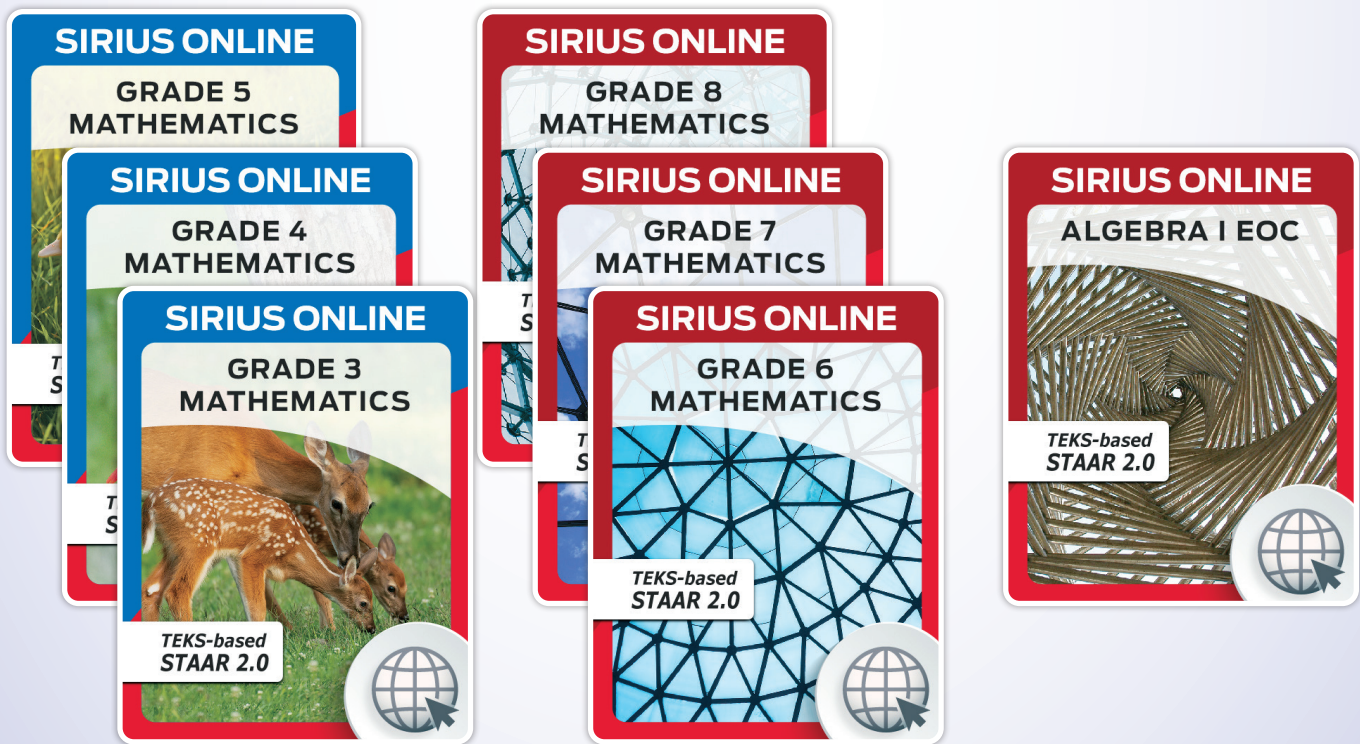*Sirius Online* 2023–24

SUPPORTING MULTIPLE MATH USE CASES

- **All Students**
- **Accelerated Instruction**

SIRIUS ONLINE
GRADE 5 MATHEMATICS

SIRIUS ONLINE
GRADE 4 MATHEMATICS

SIRIUS ONLINE
GRADE 3 MATHEMATICS
TEKS-based STAAR 2.0

SIRIUS ONLINE
GRADE 8 MATHEMATICS

SIRIUS ONLINE
GRADE 7 MATHEMATICS

SIRIUS ONLINE
GRADE 6 MATHEMATICS
TEKS-based STAAR 2.0

SIRIUS ONLINE
ALGEBRA I EOC
TEKS-based STAAR 2.0

A Comprehensive Supplement

Sirius Online supplements existing 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 tests. Using Sirius **adds depth and rigor** to your curriculum.
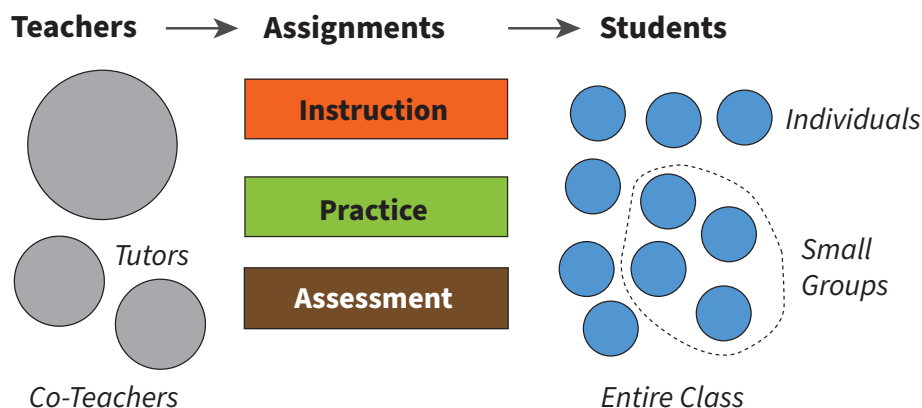
Sirius Online is a comprehensive supplement with three distinct assignments:

Instruction   Explicit TEKS instruction uses the Gradual Release of Responsibility model.

Practice   Authentic STAAR 2.0 practice empowers students with scaffolds and feedback.

Assessment   Authentic STAAR 2.0 test items delivered with the 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 Online supplements a core curriculum with easy-to-use adaptable resources for multiple implementation models, including different:

- **Time frames**

  Fall Semester   **Spring Semester**
  Beginning of the Year   After Mid-Year Benchmark
  After First 9-week Benchmark   After Spring Break

- **Ability levels**

  Does Not Meet, Approaches, Meets, and Masters Grade Level

- **Groups**

  Whole Class, Small Groups, Partners, and Individuals

- **Instructional approaches**

  Teacher-led, Student-centered, Asynchronous, etc.

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, etc.

Sirius Online Math Complements RtI

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

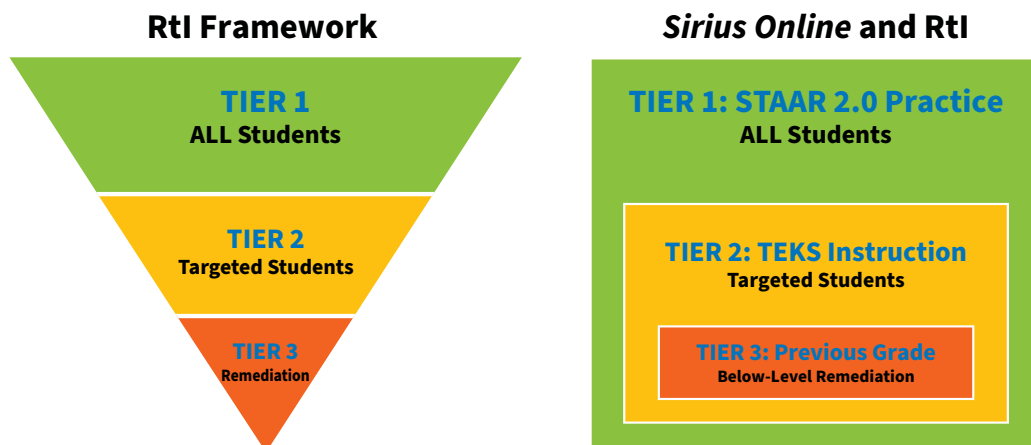## *Sirius Online* Provides Consistent Instructional Routines

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 through the year to learn the STAAR-tested thinking. 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 class 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.

RtI Framework

TIER 1
ALL Students

TIER 2
Targeted Students

TIER 3
Remediation

Sirius Online and RtI

TIER 1: STAAR 2.0 Practice
ALL Students

TIER 2: TEKS Instruction
Targeted Students

TIER 3: Previous Grade
Below-Level Remediation

TIER 1 All students get rigorous authentic STAAR 2.0 practice.

TIER 2 Targeted students get essential TEKS instruction.

TIER 3 Below-level students get foundational math skills.

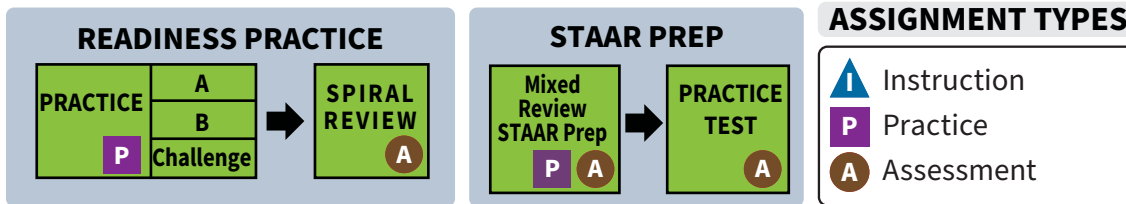## TIER 1　STAAR 2.0 Practice to Show Progress for ALL Students

The new Texas accountability system emphasizes progress for all students, and rewards moving students to the Meets and Masters Grade Level. So throughout the year, all students should receive regular authentic STAAR 2.0 practice in solving word problems, as well as mixed and spaced review (Spiral Review). This helps students transfer what they learn in class to the content and format 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.

Below are the scaffolded supports that students can choose with rich feedback.

Show Hint	Gives a helpful tip before answering a question.
Sample Answer	Gives a full solution or explanation in math and science.
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.

READINESS PRACTICE
PRACTICE | A | B | P | Challenge → SPIRAL REVIEW (A)

STAAR PREP
Mixed Review STAAR Prep (P) (A) → PRACTICE TEST (A)

ASSIGNMENT TYPES
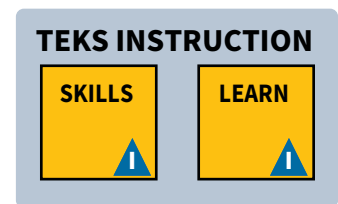I Instruction
P Practice
A Assessment

In the weeks before the STAAR test, use the Mixed Review STAAR Prep to give students systematic practice in the most-tested TEKS, and 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.
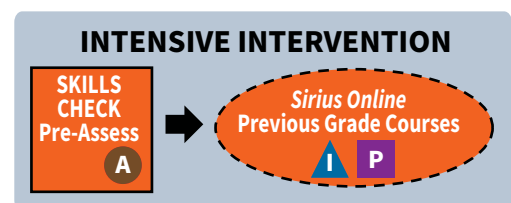
In *Sirius Online* Reports, teachers can easily make individual or group assignments by TEKS to target specific needs.

TEKS INSTRUCTION
SKILLS (I) | LEARN (I)

TIER 3　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.

INTENSIVE INTERVENTION
SKILLS CHECK Pre-Assess (A) → *Sirius Online* Previous Grade Courses (I) (P)

Math Assignment Planning 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 (0.5 h / wk)	Targeted Students TIER 2 (1 h / wk)
READINESS ASSESSMENT			
Skills Check: PRE-ASSESS	A	↻ Optional	✚ Encouraged
DIAGNOSTIC TEST	A	↻ Optional	↻ Optional
INSTRUCTION & PRACTICE			
SKILL #	⚠	↻ Optional	✚ Encouraged
LEARN	⚠	↻ Optional	✔ Recommended
PROBLEM SOLVING	⚠	✚ Encouraged	✔ Recommended
PRACTICE	P	✔ Recommended	✔ Recommended
SPIRAL REVIEW	A	✔ Recommended	✔ Recommended
SUPPORTING PRACTICE	P	✚ Encouraged	↻ Optional
POST ASSESSMENT & PREP			
Skills Check: POST-ASSESS	A	↻ Optional	✚ Encouraged
POST TEST	A	↻ Optional	↻ Optional
Mixed Review STAAR Prep	P A	✔ Recommended	✔ Recommended
PRACTICE TEST	A	✔ Recommended	✔ Recommended

ASSIGNMENT TYPES

- ⚠ Instruction
- P Practice
- A Assessment

PRIORITY KEY

- ✔ Recommended: the suggested minimum
- ✚ Encouraged: helpful in certain contexts
- ↻ 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.

TIER 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.
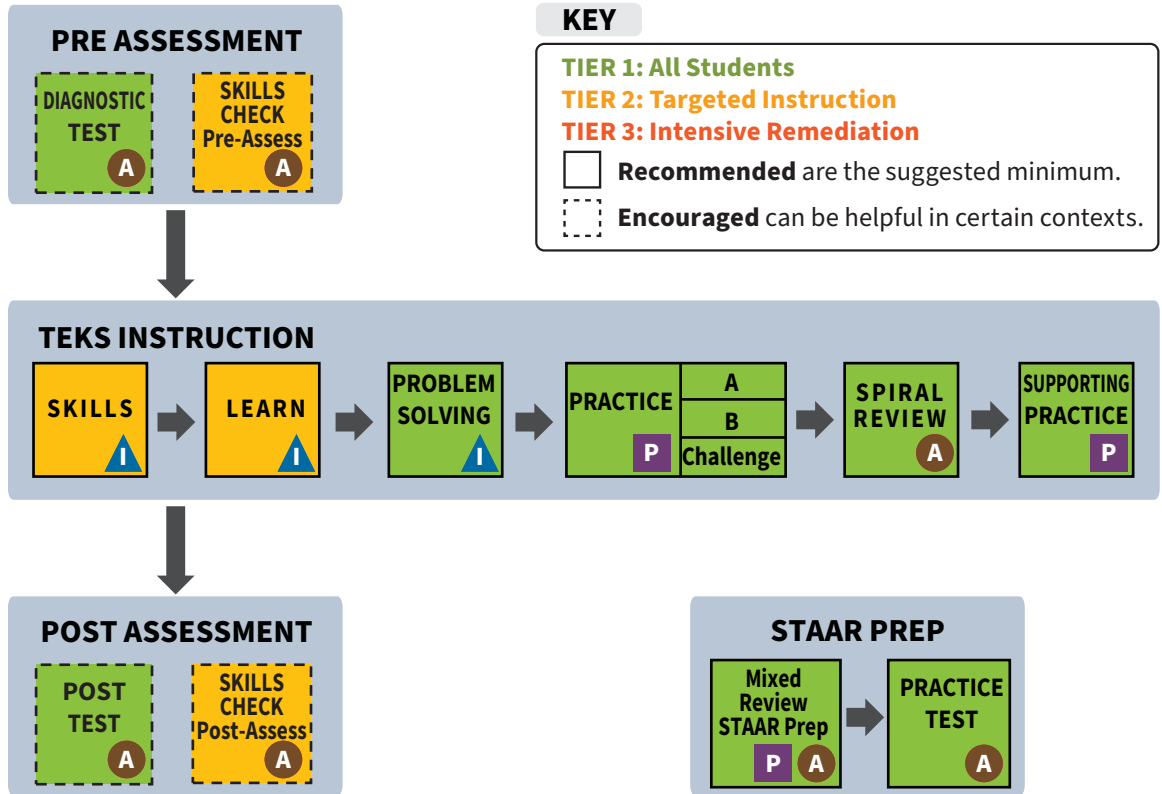
Visualizing How *Sirius Online* Math Assignments Interrelate

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.

PRE ASSESSMENT

| DIAGNOSTIC TEST A | SKILLS CHECK Pre-Assess A |

KEY

TIER 1: All Students
TIER 2: Targeted Instruction
TIER 3: Intensive Remediation

☐ **Recommended** are the suggested minimum.

⊡ **Encouraged** can be helpful in certain contexts.

TEKS INSTRUCTION

SKILLS **I** → LEARN **I** → PROBLEM SOLVING **I** → PRACTICE | A | B | P | Challenge → SPIRAL REVIEW **A** → SUPPORTING PRACTICE **P**

POST ASSESSMENT

| POST TEST A | SKILLS CHECK Post-Assess A |

STAAR PREP

Mixed Review STAAR Prep **P A** → PRACTICE TEST **A**

BELOW-LEVEL RESOURCES

TIER 3 — Reinforce key foundational math skills.

INTENSIVE INTERVENTION

SKILLS CHECK Pre-Assess **A** → *Sirius Online* Previous Grade Courses **I P**

ASSIGNMENT TYPES

I Instruction
P Practice
A Assessment

Sirius Companion Workbooks
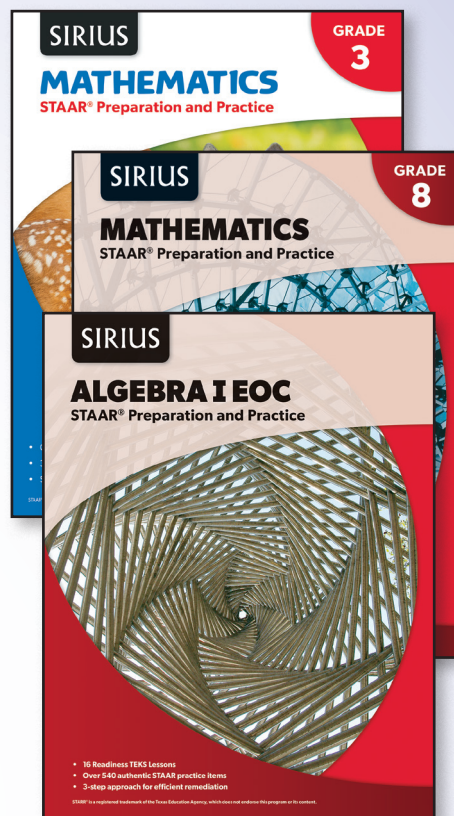
Blended Learning That's Easy to Use

Sirius Online courses and our complementary print resources have similar organization and content so that you can easily move between each medium, adapting 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 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 include a full-length Practice Test. And with online resources, students get immediate feedback while teachers get auto scoring and powerful reporting.

You can register here to **examine our printed math workbooks** as eBooks.

Sirius Online Is Research-Based

Sirius uses established research and design principles to ensure its resources are effective and easy to use to **support teachers** in **helping students** learn the essential TEKS and succeed on STAAR tests.

Sirius has partnered with McREL International to research the following expected outcomes.

McREL
INTERNATIONAL

Increased student:
- 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 conducting **ongoing user-experience** and **efficacy research** to continuously improve the student and educator experience. Contact us to learn more and partner with us!

SiriusEducationSolutions.com   **800-942-1379**