

Math Resources to Accelerate Learning in Grades 3–8 Math and Algebra I

Many students have unfinished or **missed learning opportunities** due to COVID disruptions. These learning gaps can be challenging to precisely identify and remediate.

Sirius helps accelerate learning with its unique Review Skills that are **free** with *Sirius Online* math courses. Let Sirius be part of your robust math Rtl program with **data-based decision making**.

Sirius Online Math Skills Review

Skills Review helps keep students on track and moving through the **on-grade level** course by identifying prerequisite skills needing review or targeted interventions.

Skills Review is a mini-course with one **formative assessment** for each Readiness Lesson.

- Each assessment includes two or three **key prerequisite skills** from previous grades.
- Each set of 6 exercises includes a **solved example** to remind students of the skill.

Students receive feedback and *Sirius Online* reports track performance and progress.

IMPLEMENTING SKILLS REVIEW

Math Skills are easy to use for **whole-classes**, **small groups**, and **individuals**.



Math Skills are **easy to use** in two ways:

- **WARM UP**—Check for Readiness

Identify students' needs for success in each Readiness Lesson.

Tier 1 Strong performance (5 or 6 out of 6)

Tier 2 Reinforcement likely needed (3 or 4 out of 6)

Tier 3 Inadequate performance (1 or 2 out of 6)

For Tier 3 interventions, *Sirius Online* provides for **free** its comprehensive STAAR Preparation and Practice previous grade level course.

- **BASIC SKILLS INVENTORY**—Screening Assessment

Use the **Pre-Assess** to identify potential weaknesses. Assign selected Skills Review to confirm student needs. After teachers/tutors provide remediation, use the **Post-Assess** to confirm progress.

Identifying Inverse Operations Key Skill

Identify the operation you can apply to both sides of the equation to solve it.

Example Solved Example

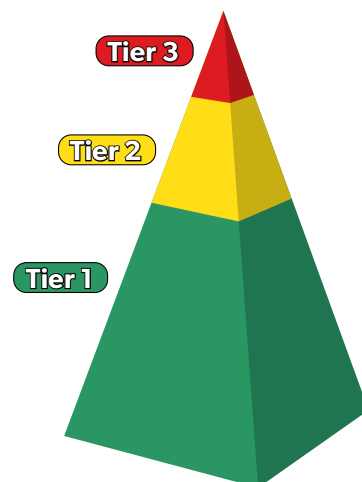
$x + 5 = 9$ The inverse of adding 5 is subtracting 5.

$x + 5 - 5 = 9 - 5$ **Subtract 5** from each side to solve for x .

$x = 4$

Choose the correct answer. 6 Exercises

- $10x = 20$
- $x - 7 = 14$
- $6 = x \div 3$
- $4x = 20$
- $12 + x = 15$
- $3 = \frac{x}{5}$



Sirius Online Math Recovery Solutions

Sirius Online Problem Solving (Zingers)

Problem Solving is based on our popular print math **Zingers** that helps ALL students become better—and more confident—STAAR problem solvers.



Each Problem-Solving lesson **engages** and **supports** students in solving the **most difficult** released STAAR test items. Each of the 24 lessons includes:

- **Guided Problem Solving** Students examine solutions and common mistakes.
- **Your Turn** Students then solve a similar test item with less scaffolding.
- **Extend Your Thinking** Students practice the key math skill in isolation.
- **Reflection** Students monitor and learn to be more aware of his or her thinking.

EASY TO USE IN DIFFERENT CONTEXTS

Use Problem Solving for **mixed-ability** classrooms. Both struggling and strong students will benefit from instruction and practice in solving **authentic** STAAR items.

- **Deliberate practice** in solving STAAR problems. Assign with TEKS instruction.
- **Retrieval practice** for spaced, cumulative, and/or mixed review.
- **Intensive preparation** in the weeks before the actual STAAR test.

Sirius Online Reports Focus Interventions

Identifying student learning gaps is challenging, especially in how the TEKS are assessed in STAAR tests. Because *Sirius Online* closely **matches STAAR tests**, *Sirius Online* data and reports can efficiently target student needs.

Regular practice in the **context** and **complexity** of online STAAR tests increases students' familiarity, confidence, and performance on STAAR tests.*

*Learn more [here](#) about how *Sirius Online* closely mimics STAAR tools.

