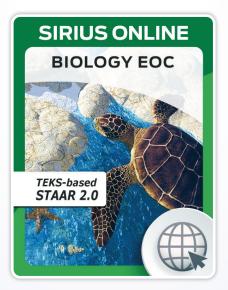


Sirius Online 2023–24 **TEACHER'S GUIDE**

How to Implement Sirius Online in Your Classroom

Biology EOC



Welcome Educators

Welcome to the *Sirius Online* **Biology EOC 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 science 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

QUICK START

Getting Started	<u>2</u>
A Comprehensive Supplement	<u>3</u>
Using Sirius for Different Contexts	<u>3</u>
Sirius Online Supports Differentiation	<u>4</u>
Sirius Online and the Rtl Framework	<u>4</u>
Assignment Planning and Pacing Guide	<u>6</u>
Three Assignment Types	<u>8</u>
Getting Help	9

GOING DEEPER

1	1.1 1.2	oduction Course Contents Welcome Letter Getting Familiar with STAAR Item Types	<u>10</u> <u>10</u>
2	2.1 2.2	essments Module STAAR 2.0 Assessments Cumulative Review: Readiness STAAR 2.0 Assessments Practice Test: Full-Length STAAR 2.0 Assessment	<u>12</u> <u>12</u>
3	Less	ons Instruction and Practice	<u>13</u>
4		itional STAAR 2.0 Preparation	
	4.1	Supporting Practice	<u>14</u>
5	Plan	ning <i>Sirius Online</i> Implementations	<u>14</u>
6	6.1	ructional Tips for Using <i>Sirius Online</i> Make a Commitment to Use <i>Sirius Online</i>	<u>15</u>
		Use Instruction and Practice for Ungraded Activities	
		Release Assignments for Student Review	
	6.4	Build Teacher-Student Relationships	
		Focus on Problem Solving	
0		cluding Questions	
	7.1 7.2	What Is Special About Sirius Online?	
	1.2	How Do I Get Students and Parents to Support Use of Sirius?	10
Siriu	us Co	ompanion Workbooksback.co	ver
Siriu	ıs On	line Is Research-Basedback co	ver

QUICK START

Getting Started

Start Here

Click <u>Introduction to Sirius Online</u> and work through this 15-minute video-based module. You can stop it and act on what you learn including:

- Adding courses
- Making classes
- Making Assignments

Sirius Online System Tutorials

Tutorials provide information about the *Sirius Online* interface for students and for teachers. Add the **tutorials course** to each of your classes and begin with these introductions to become familiar with the platform.

FOR TEACHERS





Introduction to Sirius Online

To become familiar with Sirius Online, work though this teacher eLearning Module. It only takes about 20 minutes, and you can print a certificate to show completion.

Introduction to Reporting for Education Leaders

This eLearning Module is directed primarily at administrators and focuses on Reports. Review this at your leisure to understand what Admins see in their dashboards.

FOR STUDENTS Sirius Tools Tutorial

This is an introductory tutorial about the *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.



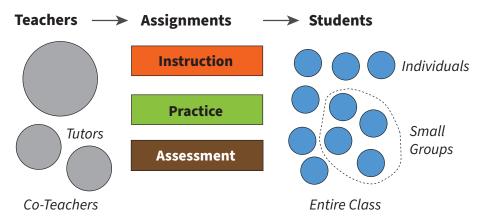
A Comprehensive Supplement

Sirius Online supplements existing instructional materials by providing essential TEKS instruction and authentic STAAR 2.0 practice.

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 and adaptable resources for multiple implementation models, including different:

- 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.

Sirius Online and the Rtl Framework

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

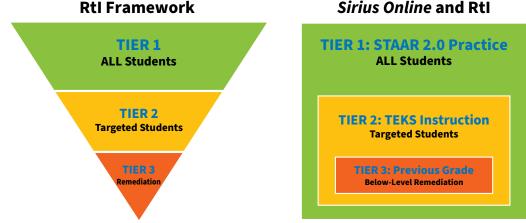
Research shows strong support for the Rtl framework in improving learning for all students. With Sirius Online, you can create consistent instructional routines that support both Tier 1 and 2 students.

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 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.



Sirius Online and Rtl

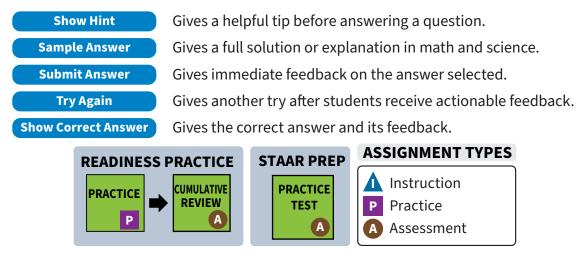
TIER 1 STAAR 2.0 Practice to Show Progress for ALL Students

The new Texas accountability system emphasizes <u>progress for all students</u>, and rewards moving students to the 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 content and format of the online STAAR test.

Scaffolded Practice Supports: Empowerment with Choice

Solving STAAR problems requires complex reasoning. *Sirius Online* <u>empowers students</u> to become more active and better problem solvers by <u>giving students choices</u> 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.



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.

TEKS INSTRUCTION		
	LEARN	PROBLEM SOLVING
	Δ	

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

TIER 3 Remediation for Intensive Below-Level Support

Sirius Online Tier 3 resources are provided in the form of free access to *Sirius Online* Grade 8 Science.

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 Assignmen	ts	ALL Students TIER 1	Targeted Students TIER 2
		(0.5 h / wk)	(1 h / wk)
READINESS ASSESSMENT	0		
DIAGNOSTIC TEST	A	හ	O
INSTRUCTION & PRACTIC	E		
LEARN		()	
PRACTICE	Р	\checkmark	
PROBLEM SOLVING		+	
CUMULATIVE REVIEW	A	 Image: A start of the start of	
SUPPORTING PRACTICE	Р	+	v
POST ASSESSMENT & PRE	P		
POST TEST	A	Q	O
PRACTICE TEST	A	 ✓ 	
ASSIGNMENT TYPES	PRIORITY KE	Y	
Instruction	🖌 Recom	mended: the suggested	minimum
P Practice	🕂 Encour	aged: helpful in certain	contexts
Assessment	🕑 Option	al: when time permits	
INSTRUCTION & PRACTIC	E DESCRIPTION	S	

LEARN instruction reinforces key skills and concepts for each Readiness TEKS. **PRACTICE** provides authentic STAAR 2.0 practice with robust scaffolds and feedback. **PROBLEM SOLVING** gives scaffolded instruction and practice in solving STAAR items. **CUMULATIVE REVIEW** provides mixed STAAR practice for spaced review.

IER 1 ON-LEVEL FOR ALL STUDENTS

Authentic and rigorous STAAR 2.0 practice and assessment so ALL students learn how to solve STAAR application word problems (many with a stimulus).

TIER 2 ON-LEVEL FOR TARGETED STUDENTS INSTRUCTION

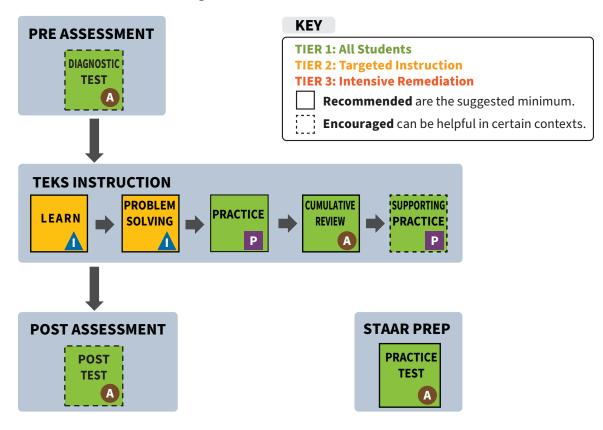
Scaffolded TEKS instruction gives Accelerated Instruction and struggling students an alternative approach for the most-tested TEKS.

Visualizing How Sirius Online Assignments Interrelate

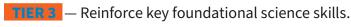
Sirius Online is a comprehensive resource that supports many distinct student needs. Below is a visualization to show how the assignments can be coordinated for each of the Response to Instruction and Intervention (RtII) pathways, as shown below.

ON-LEVEL RESOURCES

- TIER 1 All students get rigorous authentic STAAR 2.0 practice.
- TIER 2 Some students get essential TEKS instruction.



BELOW-LEVEL RESOURCES





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 🗛				
Authentic STAAR 2.0 items with all online STAAR tools.	STAAR 2.0 items only	No immediate feedback	Test mode	Each item

* Supporting Practice also includes non-STAAR format activities followed by STAAR 2.0 items.

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 **Assessments** 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**.

Getting Help



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



Our comprehensive, searchable knowledge base provides detailed step-by-step support instructions, including videos, and is available 24/7 <u>here</u>.



<u>Going Deeper</u> is a document with more in-depth information about *Sirius Online,* and recommendations in this Teacher's Guide in your classroom.



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

Phone: (800) 942-1379, Option 2 Monday-Friday 7 am–6 pm CT

Chat: www.SiriusEducationSolutions.com Available all hours. Use to locate your sales representative and get order or product info.

Email: Support@SiriusEducationSolutions.com

Online Tickets: <u>https://Sirius4Learning.zohodesk.com/portal/en/home</u> Create, view, and manage support tickets online.

GOING DEEPER

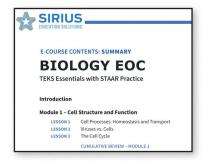
Explore in-depth information about *Sirius Online*, and recommendations for ways to implement *Sirius Online* in your classroom.



1.1 Course Contents

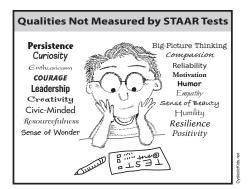
A Summary that shows the course organization, and a Detailed View that lists every assignment in the course.

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



1.2 Welcome Letter

The Welcome Letter introduces the *Sirius Online* Biology course to students and seeks to provide context and motivation to students.



The Welcome Letter is available to students through the *Sirius Online* Biology course. You will need to assign the Welcome Letter as an assignment for your students.

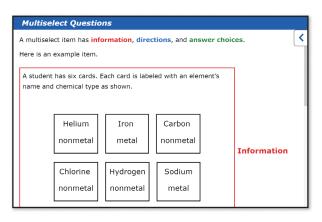
We encourage use of this activity to help students process their feelings about STAAR tests. STAAR tests measure a limited range of capacities, as shown by this comic.

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

1.3 Getting Familiar with STAAR Item Types P



Getting Familiar with STAAR Item Types are introductory lessons about the new STAAR 2.0 questions. Students will practice these items throughout the course, so familiarity will become fluency, which then lead to confidence.



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.

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

2 Assessments

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

All *Sirius Online* Biology 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.** When students experience similar *feelings* to when taking the actual STAAR test, they get to rehearse this stressful context. This also results in more accurate performance data.

2.1 Module STAAR 2.0 Assessments

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	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
• 16 questions, in the same format as the STAAR test	 16 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





2.2 Cumulative Review: Readiness STAAR 2.0 Assessments

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 five Cumulative Readiness Review assessments, each longer than the preceding to include all previous Readiness TEKS.

2.3 Practice Test: STAAR 2.0 Assessment

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.



Lesson Instruction and Practice

Readiness lesson Instruction and Practice provides comprehensive instruction and practice in the most-tested TEKS. Each Readiness TEKS has a sequence of **Instruction** and **Practice** assignments for prerequisite skills, TEKS instruction, scaffolded instruction in problem solving, and STAAR 2.0 practice, detailed below.

LEARN

	actively transport large nutrient molecules like prote ws the cell to actively transport large waste molecule
205	Cell exterior
R	Vesicle Cytoplasm

Ρ	RA	CT	ICE	Р	

ONE correct answ	or to each here	
	iei to each box.	Not all answers will be used.
cilitated diffusion	endocytosis	diffusion cell respiration osmosis
	Cellular Process	Description
		Molecules move from areas of high concentration to areas of low concentration.
	cilitated diffusion	Cellular

PROBLEM SOLVING

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

Ample and authentic STAAR 2.0 practice of the TEKS as they are tested in STAAR.

- 50% include a stimuli like STAAR 2.0 items
- Includes 30% new question types
- Hints and actionable feedback help students build problem-solving capacities

Ample authentic STAAR 2.0 practice of the TEKS taught in each LEARN as they apply to STAAR questions.

- 60%+ of items include a stimulus just like STAAR
- Includes new STAAR 2.0 question types
- Robust and actionable feedback in an online platform that closely matches STAAR

Teachers can group-assign all components of **Readiness Instruction and Practice** to all classes in one step.

Alternatively, teachers can customize by selecting some components and/or adjusting for different classes. Assignments can be made to groups of students within a class.

All assignments are auto-scored and provide students with immediate feedback.



4.1 Supporting Practice

Authentic STAAR 2.0 practice for each Supporting TEKS, with a greater emphasis on the most-tested TEKS. Supporting Practice is organized by Reporting Category.

Supporting Practice assignments begin with 2 or 3 Supporting Review activities that provide non-STAAR format review of key terms, concepts, and their interrelationships. These can help prepare students for the following 5-8 authentic STAAR 2.0 items.



Planning Sirius Online Implementations 5

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

For support in creating a unique implementation for your particular needs, you may want to consider the following questions to guide your planning.

	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?
Integration	Where does Sirius Online integrate into the curriculum/classes?
Coordination	How does Sirius Online connect to your core curriculum?
Needs	What are the instructional pathways for different students?

There is no one best way to use Sirius Online because each classroom has unique needs. However, we strongly encourage implementations that extend throughout the full school year. Research shows that "cramming" is not effective for complex cognitive tasks, such as online STAAR word problem solving.

6 Instructional 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.

In working with students, rhythm and routine can be powerful supports in encouraging them 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 students are more likely to take risks, make mistakes, and use the feedback to get better in low-stakes activities. In contrast, for **Assessments**, students should be focusing on getting the correct answer: performing instead of practicing.

Although teachers can convert **Practice** assignments into **Assessments** (so students get no immediate feedback), we suggest that this be used cautiously for special situations.

6.3 Release Assignments for Student Review

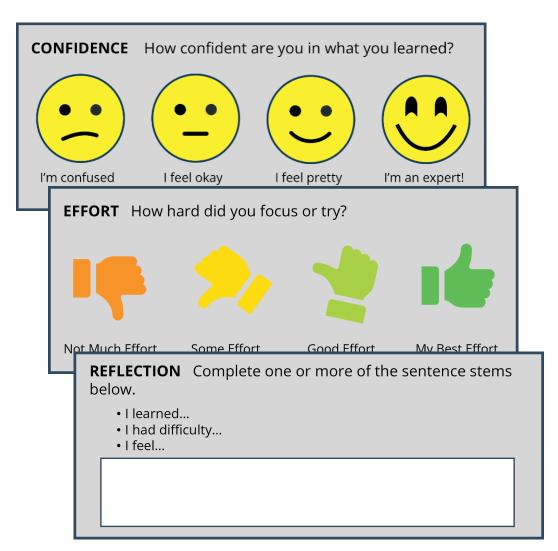
We encourage teachers to release assignments for students to review their work. Furthermore, teachers need to help students develop the habit of using the Review only mode to analyze the items that they got correct and/or incorrect. In Review mode, students also get access to full solutions as well as the tools that they used such as Highlights, Sticky Notes, and feedback comments from the teacher. For assessment, you can simply delay the release of any assessment until all students have submitted it.

6.4 Build Teacher-Student Relationships

We encourage teachers to take advantage of the student Self Evaluation at the end of each **Instruction** and **Practice** assignment. Teachers can respond directly to each student's written response to encourage, support, and challenge them individually.

- Confidence in what students learned/practiced
- Effort or how hard students tried
- Reflect or short written response (shared with teacher)

Sirius Online **Instruction** and **Practice** assignments ask students to reflect on their work with 3 end-of-assignment unscored questions:



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 the teacher is reviewing student work and that they are 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 Biology Tests Are Problem-Solving Tests

STAAR Biology tests <u>emphasize problem solving</u>. So instead of recall, students need to apply their knowledge of biology concepts to solve problems. In fact, the majority of Biology STAAR test items include a stimulus of graph, table, or image that students need to analyze. Thus, STAAR test questions demand careful reading, identifying given information and what is being asked, integrating and applying biology concepts, and navigating new STAAR 2.0 question types as well as the online testing platform. I

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 practice with scaffolds that empower students to make choices and take greater ownership of problem-solving processes.

<u>Thinking is hard work</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 that they provide student 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 thinking more deeply.

Three Key Thinking Habits Teachers Can Promote

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

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

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

7 Concluding Questions

7.1 What Is Special About 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 <u>along</u> with a core curriculum, not as a replacement. However, *Sirius Online* is needed because it <u>fills instructional gaps</u> in older adopted materials by closely matching STAAR 2.0 in all its details: content, format, and rigor.

Problem-Solving Focus

Because the STAAR Biology test focuses on problem solving, Sirius <u>adds depth and</u> <u>rigor</u> by helping students apply biology 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 <u>encourage and support thinking</u> <u>more deeply</u>.

High-Quality Feedback

Effective feedback enables learning and relies upon a culture that is open to using <u>feedback to impact future choices—to feedforward</u>. This is where Sirius' robust and high-quality feedback comes in. *Sirius Online's* comprehensive feedback options are designed to <u>empower students through choice</u>, and to be supported by teachers who can focus on student learning (instead of finding rigorous and effective curriculum

7.2 How Do I Get Students and Parents to Support Use of Sirius?

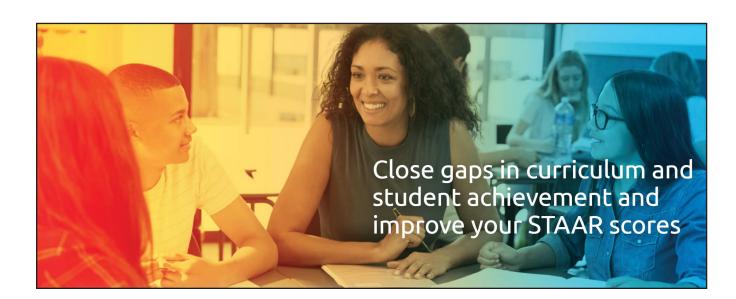
Your belief that Sirius will help your students is the key, because this belief will be transmitted to students and parents in everything you say and do. Students and parents trust you and will see your sincere efforts to help.

No surprise, the more you understand *Sirius Online,* the better you can use and appreciate our value in helping you support your students in learning the essential tested TEKS and practicing 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 you are you are sharing with them a <u>focus on a process of getting</u> <u>better at STAAR tested thinking</u>. And all students can improve and show progress.

When talking with parents, it can be helpful to know how they perceive STAAR and testing in general. Because STAAR is a requirement, we suggest <u>avoiding negative talk</u> <u>about STAAR tests</u>. We encourage teachers to focus on students and their needs and how STAAR focuses on word problems.

This is the same message you communicate to students: you are helping them learn and practice biology problem solving, the thinking and rigor of STAAR. Complaining about STAAR to students can be give them an excuse not to try their best and develop their capacities through hard work. And some students are looking for an excuse!



Sirius Companion Workbooks

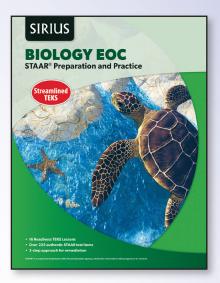
Blended Learning That's Easy to Use

Sirius Online courses and our complementary print resources have similar organization and content so you can easily move between each medium, to 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 courses integrate all** the content from our print-based workbooks 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 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.

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!