

California Elevate Science © 2020 Grades 6–8 Program Overview

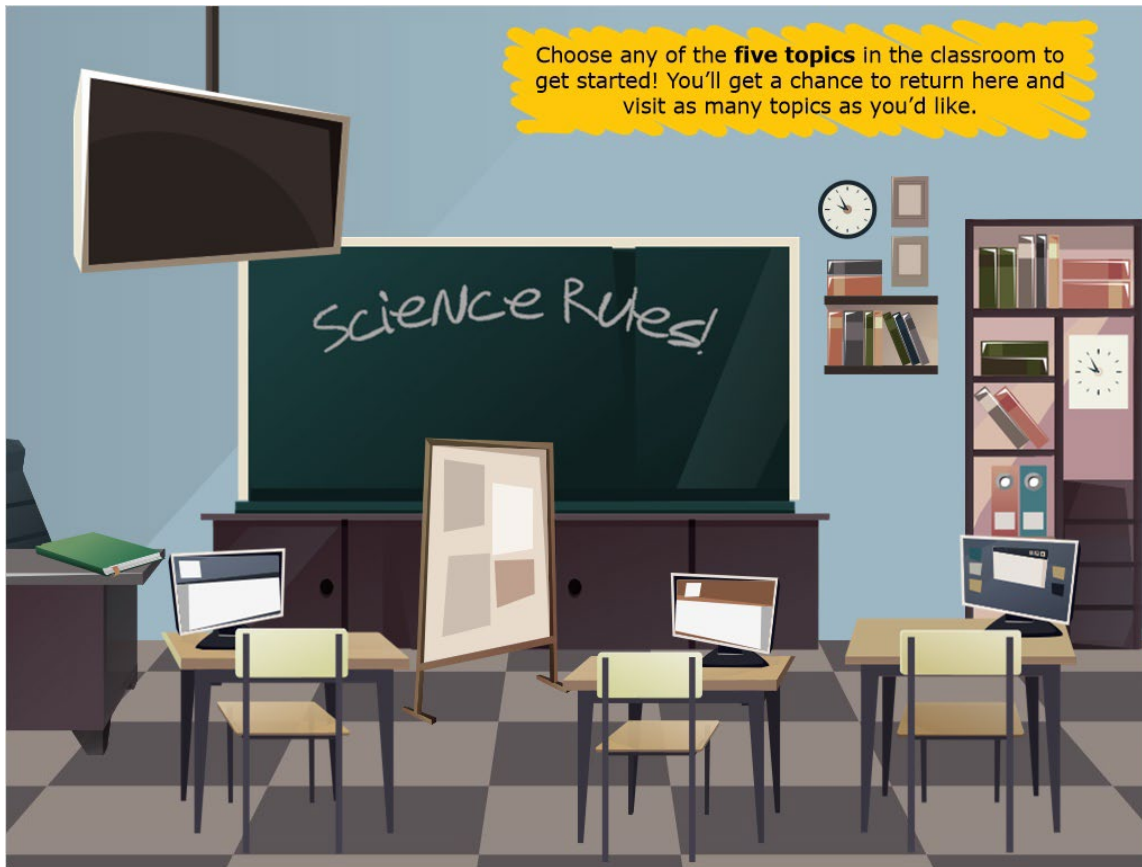
Introduction



Hi, I'm Tracy, and I'll be your learning partner for this tutorial. If you're anything like me, getting a new science curriculum can feel exciting but also a little overwhelming!

In this tutorial, we'll go through the basics of teaching with *California Elevate Science* and how it can equip you to support a culture of scientific inquiry in your classroom. Scared of heights? We've got you covered.

Home



Let's dig into the answers to some questions you may have as you get started.

- How do I use the different program materials during instruction?
- What does a typical class period look like?
- What are the California Spotlights all about?
- What are Quests and how do I use them?
- How do I monitor progress and meet the needs of all my students?

Program Materials



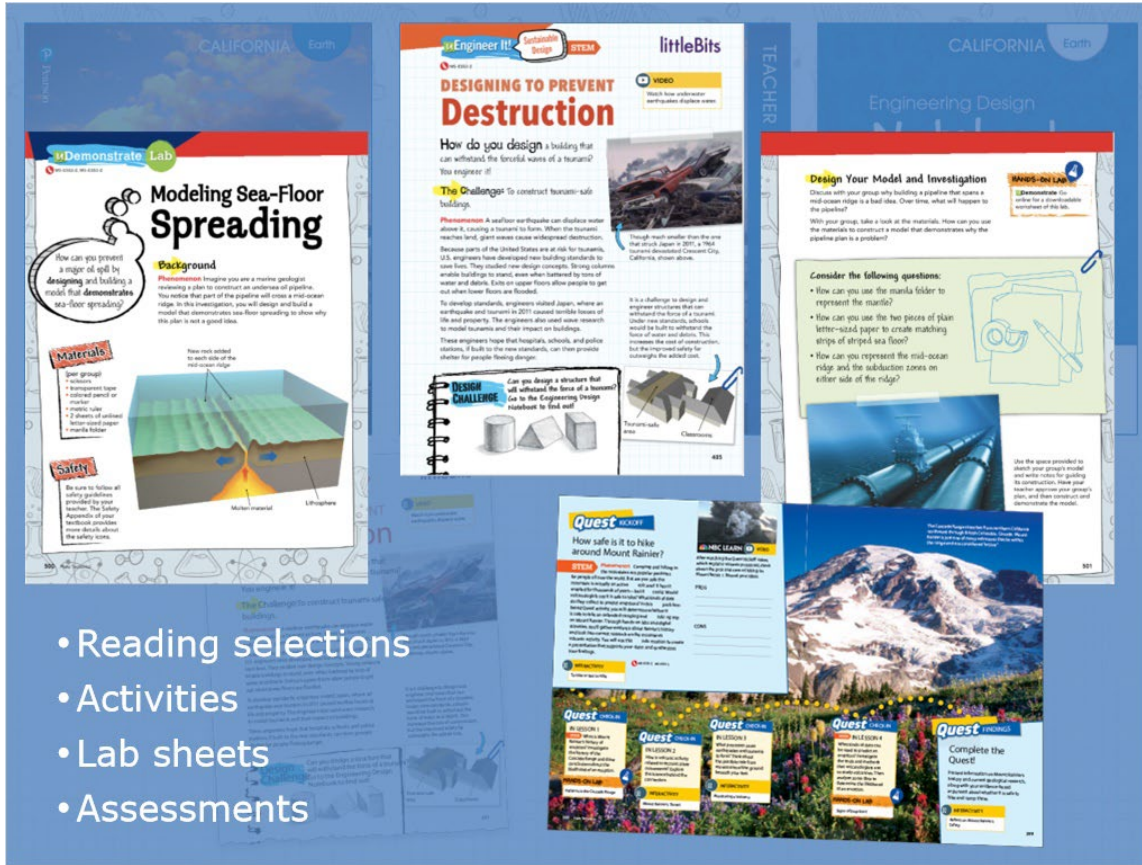
You've received a package of books and materials along with a digital subscription to Savvas Realize™. Depending on your district, you may have received materials kits as well.

You may be using the integrated program, where you will teach a mixture of life, earth, and physical science at each grade level.

Or you may be using the program that covers one domain in each grade level. Or maybe your school has selected a custom sequence of modules for each grade level. Either way, the major components and program structure are the same.

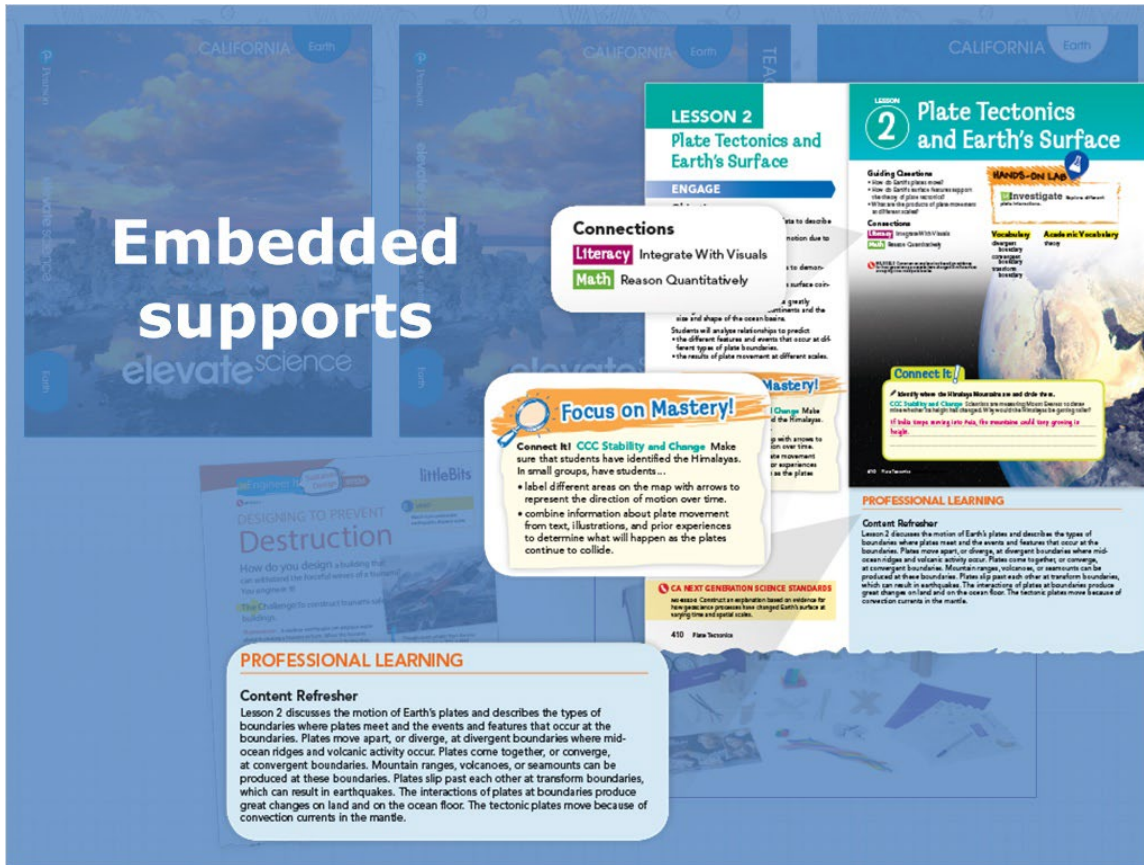
Let's take a quick peek at both the print and digital versions of the program components to see how they will help you plan and teach your science lessons.

Student Edition



The Student Edition contains reading selections, activities, lab sheets, assessments, and more. Use the *STEAM Student Handbook* to integrate science with technology, engineering, art, and math!

Teacher Edition



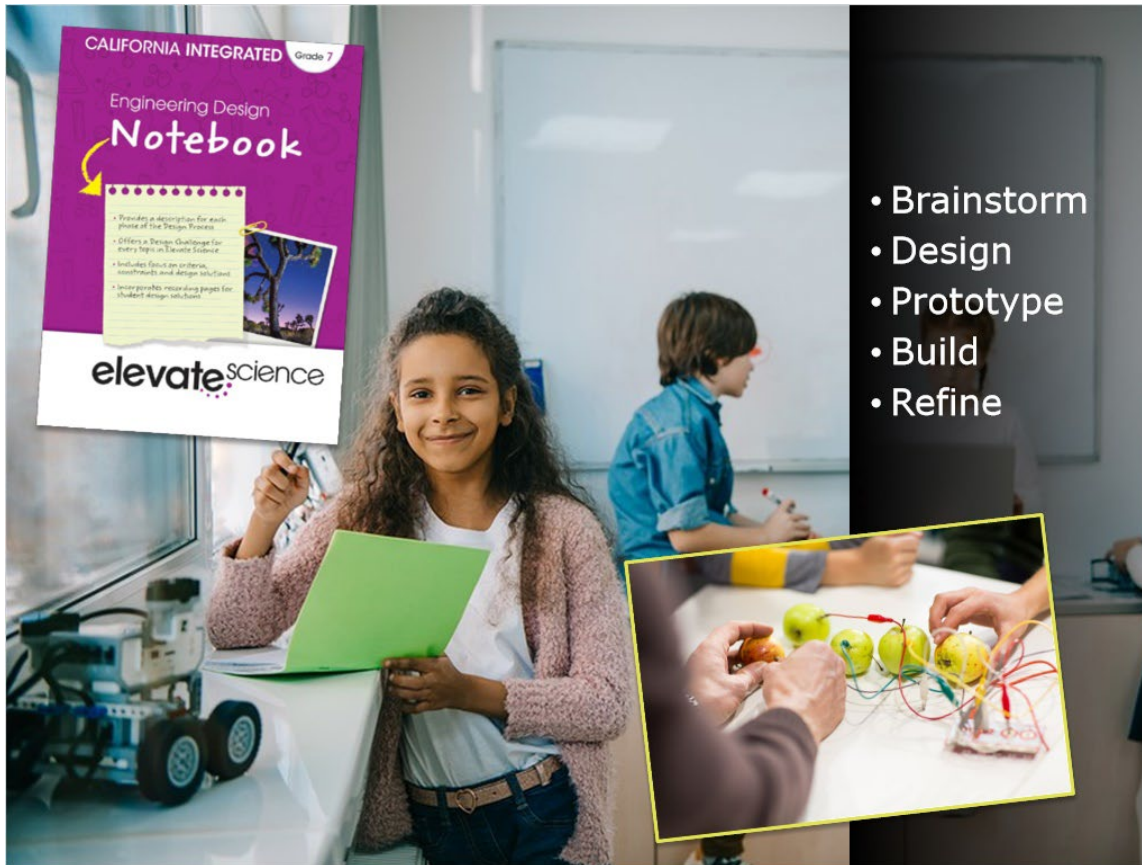
Your print Teacher Edition mirrors the Student Edition but also contains additional front and end matter and embedded supports on each page.

Both you and your students also have Realize Reader eTexts that you can use online.

Why use the student eText? First of all, students will love the option to hear the text. But my favorite feature is the digital notebook where students type answers to questions that you can view and grade. I just love eliminating all those stacks of paper and having organized records for parent meetings!

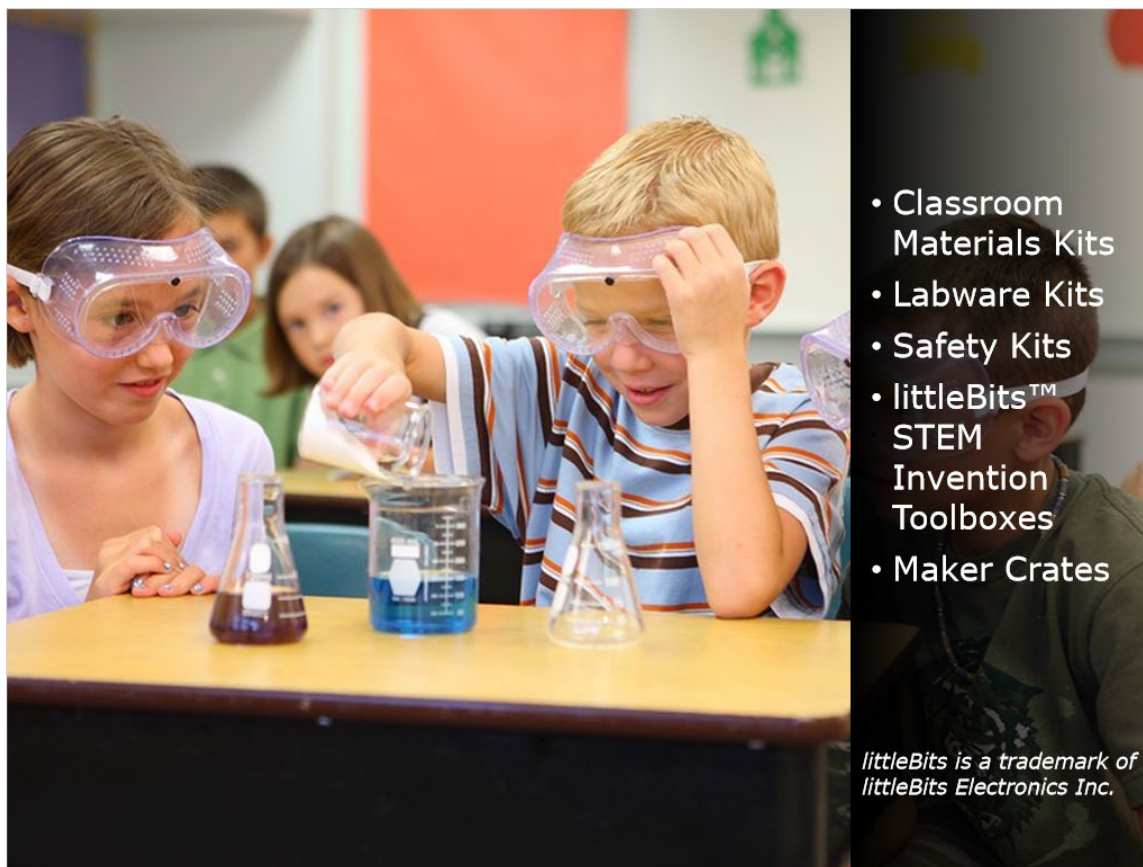
Students can also complete interactivities on Savvas Realize that aren't available in print, like videos, virtual labs, and modeling activities.

Engineering Design Notebook



In addition to the primary texts, you've got print and digital versions of the *Engineering Design Notebook*, where students can brainstorm, design, prototype, build, and refine their inventions.

Materials Kits



You may have also received materials that you can use during hands-on activities and labs. Didn't receive any materials kits? Fortunately, most of the materials are common items that you can gather. Find a list of these items at the beginning of each topic in the Teacher Edition. Or use the virtual labs instead!

Typical Class Period



Whoa, back up there! Before we look at the lesson detail, let's zoom out a little. First and foremost, make sure you've set up each topic by introducing the California Spotlight and Quest Kickoff. The Quest Kickoff includes an engaging NBC Learn® video. These two features will help students make connections to the content they're about to learn. Make sure to visit those sections in this tutorial before you leave!

Now, you asked about a lesson, so let's dig in!

Each lesson follows the 5E structure-Engage, Explore, Explain, Elaborate, and Evaluate. These terms describe what students will do in each lesson phase. For example, each lesson contains a uInvestigate Lab in the Explore phase. Students will use what they learn in the Explore phase during the next two phases to Explain and Elaborate on the lesson's content.

Remember that some activities are only located on Savvas Realize, like videos and interactivities. You'll also find a digital auto-graded quiz for each lesson on Savvas Realize.

Students will complete Quest Check-In activities throughout a topic, so make sure you've launched the Quest at the beginning!

NBC Learn® is a registered trademark of NBCUniversal Media, LLC.

California Spotlight

The screenshot shows the Savvas Realize interface. At the top, there are navigation links for Home, Browse, Classes, and My Library. The main heading is 'California Elevate Science'. Below this, a 'Spotlight on the Anchoring Phenomenon' is featured with a fire scene image. A red-bordered box highlights the 'Anchoring Phenomenon' section, which contains three text input fields: 'What do you see?', 'What do you think?', and 'What do you wonder?'. To the left, a sidebar lists instructional segments, with 'California Instructional Segments 2 Life Science' highlighted in red. To the right, a dark overlay titled 'Digital Resources' lists: 'See, Think, Wonder slides', 'Scientists and Engineers', and 'STEAM projects'.

At the top organizational level of the program are instructional segments. Each segment contains a set of related topics. The California Spotlight feature will launch the set of topics by introducing a California phenomenon that will help students make sense of the upcoming content.

You'll find instructions for launching and concluding the Spotlight in your Teacher Edition at the beginning of each instructional segment.

You can find digital resources for each Spotlight in the California Instructional Segments folder on Savvas Realize.

Quests

Quests are key!

NBC Learn videos introduce real-world problems

- Quest Kickoff
- Quest Check-In activities
- Quest Findings

I'm glad you asked about Quests! Quests are one of the most important features in the program.

The Quest presents a problem for students to solve using the science content and practices in that topic.

Students will complete Quest Check-In activities during lessons as they develop, investigate, and synthesize their ideas, and then they'll present their findings at the end of the topic.

You may be tempted to skip the Quest and jump straight into the lessons, but think again. The Quest will build the background knowledge, purpose, and motivation that are key to helping students connect with the content.

Assessment and Differentiation

The image shows a screenshot of the Savvas Realize platform. On the left, a red box highlights 'LESSON 1 Check' with four assessment questions:

- 1. Explain** How can you measure the wavelength of a longitudinal wave?
- 2. SEP Use Mathematics** A sound wave's frequency is 4 Hz and its wavelength is 8 m. What is the wave's speed?
- 3. SEP Use Models** Draw a model of a transverse wave. Use lines and labels to show the amplitude and wavelength of the wave.
- 4. Use Proportional Relationships** During a rising tide, ocean waves often become larger. If the amplitude of a wave increases by a factor of 1.1, by how much does the energy increase?

 Below these are two more questions:

- 5. CCC Cause and Effect** If a musician increases the wavelength of the sound wave she produces without changing their speed, what must be happening to the frequency? Explain your answer.

 The main screenshot shows the 'California Elevate Science Physical Segments Grade 8' interface. It lists topics: Topic 3: Waves, Lesson 1: Wave Properties, Lesson 2: Wave Interactions, Lesson 3: Sound Waves, Lesson 4: Light, and Topic Close Waves. The 'Lesson 1: Wave Properties' section is expanded, showing standards (PS.MS.PS1, PS.MS.PS3, PS.MS.PS4, PS.MS.PS6, PS.MS.PS8, PS.MS.PS9, PS.MS.PS10, PS.MS.PS11, PS.MS.PS12, PS.MS.PS13, PS.MS.PS14, PS.MS.PS15, PS.MS.PS16, PS.MS.PS17, PS.MS.PS18, PS.MS.PS19, PS.MS.PS20, PS.MS.PS21, PS.MS.PS22, PS.MS.PS23, PS.MS.PS24, PS.MS.PS25, PS.MS.PS26, PS.MS.PS27, PS.MS.PS28, PS.MS.PS29, PS.MS.PS30, PS.MS.PS31, PS.MS.PS32, PS.MS.PS33, PS.MS.PS34, PS.MS.PS35, PS.MS.PS36, PS.MS.PS37, PS.MS.PS38, PS.MS.PS39, PS.MS.PS40, PS.MS.PS41, PS.MS.PS42, PS.MS.PS43, PS.MS.PS44, PS.MS.PS45, PS.MS.PS46, PS.MS.PS47, PS.MS.PS48, PS.MS.PS49, PS.MS.PS50, PS.MS.PS51, PS.MS.PS52, PS.MS.PS53, PS.MS.PS54, PS.MS.PS55, PS.MS.PS56, PS.MS.PS57, PS.MS.PS58, PS.MS.PS59, PS.MS.PS60, PS.MS.PS61, PS.MS.PS62, PS.MS.PS63, PS.MS.PS64, PS.MS.PS65, PS.MS.PS66, PS.MS.PS67, PS.MS.PS68, PS.MS.PS69, PS.MS.PS70, PS.MS.PS71, PS.MS.PS72, PS.MS.PS73, PS.MS.PS74, PS.MS.PS75, PS.MS.PS76, PS.MS.PS77, PS.MS.PS78, PS.MS.PS79, PS.MS.PS80, PS.MS.PS81, PS.MS.PS82, PS.MS.PS83, PS.MS.PS84, PS.MS.PS85, PS.MS.PS86, PS.MS.PS87, PS.MS.PS88, PS.MS.PS89, PS.MS.PS90, PS.MS.PS91, PS.MS.PS92, PS.MS.PS93, PS.MS.PS94, PS.MS.PS95, PS.MS.PS96, PS.MS.PS97, PS.MS.PS98, PS.MS.PS99, PS.MS.PS100), teacher resources, and interactive segments like 'Poll: Reactive Ripples', 'Interactivity: Modeling Waves', and 'Interactivity: Making Waves'.

- ✓ Lesson level
- ✓ Topic level
- ✓ Instructional segment level
- ✓ Program level

You'll find assessments at the end of each lesson, topic, and instructional segment and in the Program Resources folder on Savvas Realize. Let's look at a few of my favorites.

California Elevate Science includes more traditional forms of assessment that show what students *know*, but you'll love the Evidence-Based Assessments and Performance Assessments at the end of each topic that show you what students *know how to do*, including designing and running their own lab experiments! Three-dimensional assessments give students practice with questions similar to those they'll see on CAST.

And don't forget the Quest Findings, where students present their findings based on the ideas they have been developing and refining over the course of the topic.

Student data is a valuable teaching tool, but we all know how quickly it can get out of hand! If you're wondering how to collect assessment data without adding stacks of paper to your desk, consider de-cluttering with digital assessment and auto-grading! If this is something that interests you, find out more about the Data tab on Savvas Realize by going to MySavvasTraining.com.

California Elevate Science educators believe that all students can engage in meaningful scientific inquiry! So, let's find out how to use your differentiation resources.

Look for the ELD Support and Differentiation sections in your Teacher Edition for point-of-use tips on differentiating to all students—struggling students, English language learners, and advanced learners.

And the front matter of your Teacher Edition is chock-full of resources about ensuring access and equity in your classroom. Check them out!

And one last tip to remember: If some of your students struggle with reading, they can use the audio support features in the Realize Reader eText to have the text read aloud to them.

Closing



For more tutorials about *California Elevate Science* or Savvas Realize, please visit [MySavvasTraining.com](https://www.mysavvas.com).