

# ALABAMA ADOPTION

Navigation
Guide

# Welcome to STEMscopes Science Alabama!

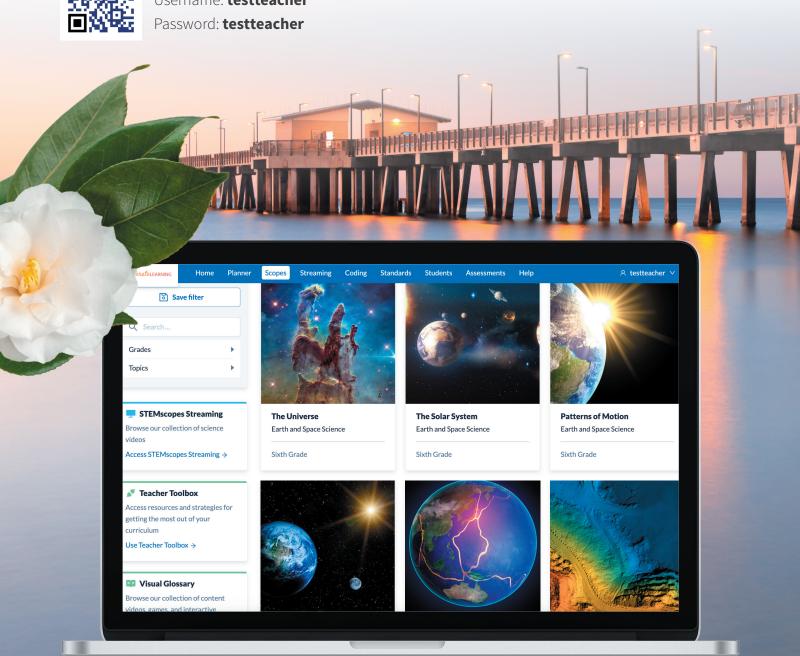
STEMscopes Science™ Alabama shifts the paradigm of traditional science instruction to student-centered, phenomena-based STEM learning. Based on the 5E instructional model and perfected with the invaluable insight of real-life educators, STEMscopes provides a carefully curated, rigorous curriculum that both challenges and sparks the curiosity of students all across Alabama. Be more than a science teacher: be a STEM teacher.

Use the credentials below and log in to review our program.



URL: acceleratelearning.com/alsciencelogin

Username: testteacher







Walk through our curriculum with this instructional video.

# Navigating the Digital Curriculum

# **Main Navigation Bar**

#### **ESSENTIALS**

View upcoming lessons and customized bookmarks on your dashboard

#### **PLANNER**

Create lesson plans and collaborate with fellow STEMscopes teachers

## **SCOPES (START HERE!)**

Access all lesson content and teacher supports

## **STANDARDS**

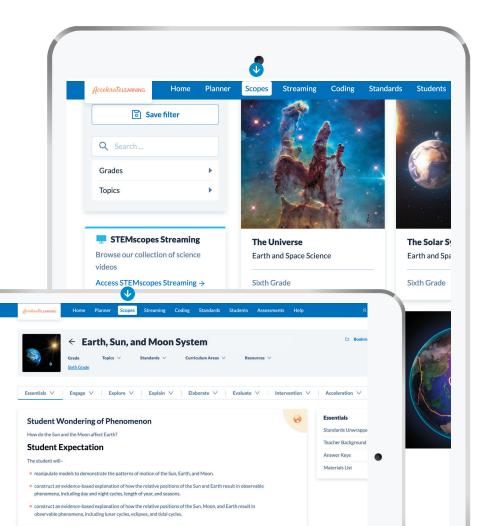
View a breakdown of the Alabama Academic Standards for Science

#### **STUDENTS**

Manage student accounts, create class groups, and monitor assignment progress and grades

## **MORE**

Select from a wide variety of assessments, access eBooks, or get help

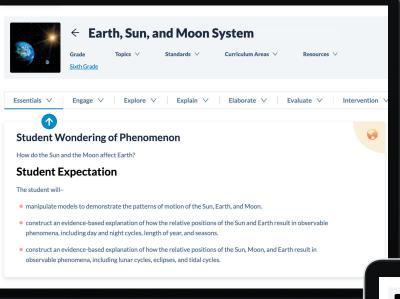


# **Scopes**

STEMscopes Science Alabama is organized into chapters (scopes) and lessons (handson Explores) that build upon each other. Filter by grade, domain, or keyword to find a specific Scope.

# A LOOK INSIDE A SCOPE

After selecting a Scope (chapter), review the planning and instructional resources. The white toolbar at the top can help you access all the features and benefits of STEMscopes Science Alabama.

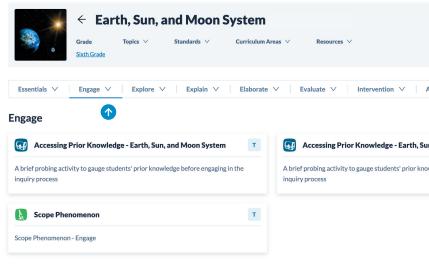


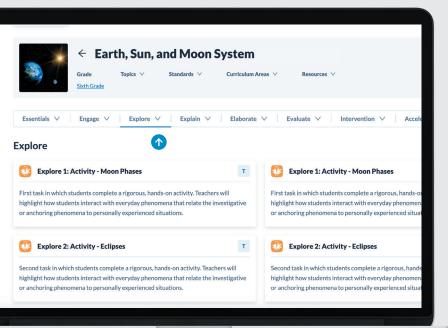
## **ESSENTIALS**

Click the **Essentials** button to access key materials that will help you prepare for the scope activities. These include standards, scope vocabulary, and a background explanation for new science teachers or teachers in need of a refresher.

# **●** ENGAGE

Engage marks the start of 5E learning. First, introduce your students to the Scope Phenomena, which guides student learning and gives students the opportunity to question what they don't yet understand. Your students revisit the Scope Phenomena throughout the scope to discuss ideas and revise their thinking. Next, allow your students to reflect on what they already know using the Accessing Prior Knowledge activity. This will help you identify students' background knowledge.

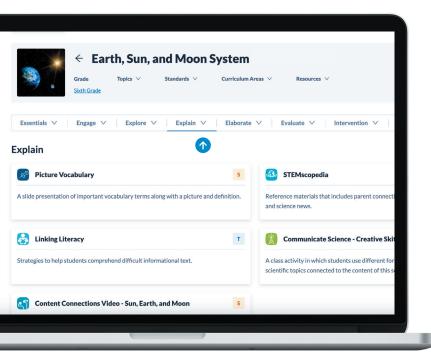




#### **EXPLORE**

**Explore** is where you continue hands-on learning with exciting activities. Your students unpack a problem and determine the solution themselves. Whether they're designing a model, conducting an investigation, or gathering data, your students are now in control of their own learning, and that's where real science takes place.

Typically, a teacher will begin with an Explore activity and use Explain's resources to support students in making sense of their hands-on investigation. It is ideal to repeat this cycle, alternating between Explore and Explain.



## EXPLAIN

With **Explain**, your students dive even deeper into the scope's scientific concepts and phenomena, reinforcing what they've learned and discovered during their hands-on Explore activities. Students discover additional, detailed answers to their questions and expand their learning through differentiation based on their individual needs. Also during Explain, your students can connect their experiences with literacy through the STEMscopedia informational text and Picture Vocabulary.

## ELABORATE

Essentials V

Claim-Evidence-Reasoning

An assessment in which students write a scientific explanation to show their

A short-answer and essay assessment to evaluate student mastery of the concept.

understanding of the concept in a way that uses evidence.

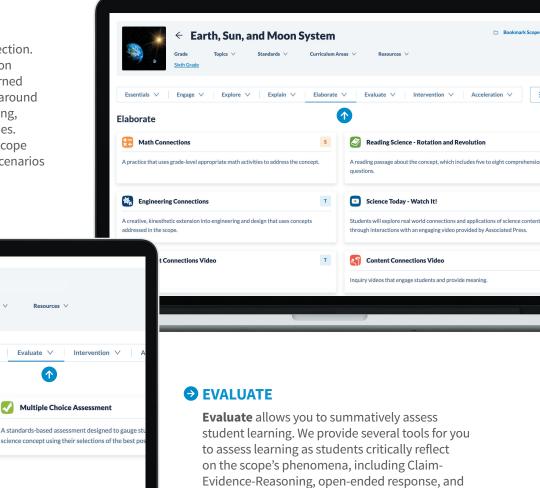
Open-Ended Response Assessment

**Evaluate** 

**Elaborate** is designed for enrichment, application, and cross-curricular connection. This is where students further build upon their previous learning, connecting learned concepts to themselves and the world around them through math, reading, engineering, simulations, and other valuable activities. These resources help students tie the Scope Phenomena together with real-world scenarios and events.

Earth, Sun, and Moon System

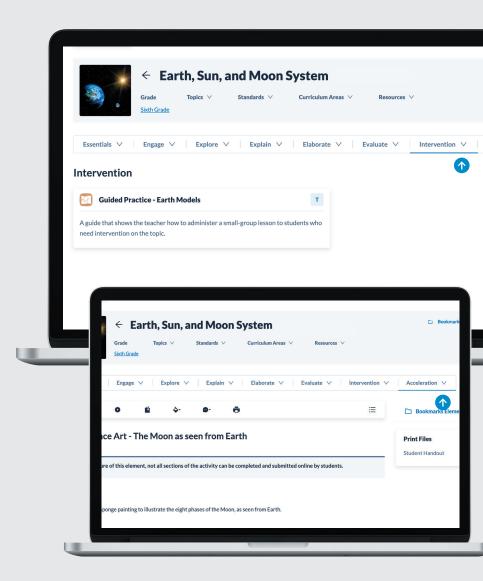
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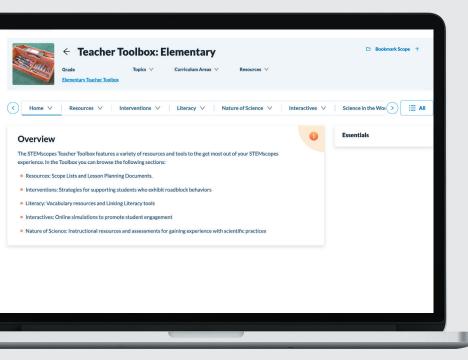


auto-graded multiple choice assessments.

## **INTERVENTION & ACCELERATION**

We believe **Intervention** and **Acceleration** are critical to the modern classroom. In addition to providing everything you need to complete a 5E lesson sequence, STEMscopes provides even more options for differentiated instruction. Whether a student requires guided and granular instruction, or is ready to take learning to the next level, we make sure every student has the supports needed.





## TEACHER TOOLBOX

Our STEMscopes Teacher Toolbox features a variety of resources and tools to get the most of your STEMscopes experience. In the Toolbox you can browse scope lists, planning documents, intervention strategies, literacy tools, online simulations, nature of science resources, and science career connections.





