



THE LEADER in PreK-12 STEM EDUCATION

## STEMscopes Guide

### Topics

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- 5-6. How do I use the planner tool? (It is great for sharing lesson plans)
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\*For additional help use the HELP tool located in the top right corner of the website.

\* Right click on the Blue Link to come back to the top of the page.

# 1. How do I access STEMscopes?

## DIRECTIONS FOR ACCESSING STEMSCOPES VIA THE INTRANET & ES/MS-HS DASHBOARD

Go to the intranet.



You will see this screen:

Up in the right-hand corner, you will see ES/MS-HS/Staff. Click on either ES or MS-HS.



You will see this screen:

The STEMscopes icon is the second icon on the second row.

- When accessing from school, it takes you into the site without entering credentials.
- When accessing from home, you will now use your PCSD login credentials.

\* Each lesson is aligned with the new GSE Science Standards

\* You can assign activities to students individually, and change their login once your class is created.

## 2. The Essentials of Scope

- Once your logged in click the tab that says scope
- Then pick your grade, and all the SCOPES will show based on content area.

The screenshot shows the STEMscopes website interface. At the top is a blue navigation bar with tabs: Home, Planner, Scopes, Standards, Students, Assessments, STEMcoach, and Help. Below this is a sidebar with 'All Scopes' and 'Bookmarks' tabs. The sidebar contains a search bar, dropdown menus for 'Grades' and 'Topics', and three sections: 'Teacher Toolbox' (with a 'Use Teacher Toolbox' button), 'Visual Glossary' (with an 'Access Visual Glossary' button), and 'STEMcoach In Action'. The main content area displays a grid of four science scopes, each with a representative image and a title: 'KE1AB The Day and Night Sky' (Earth and Space Science), 'KE2A Earth Materials' (Earth and Space Science), and two others with images of a field and two goats.

**STEMscopes uses the 5E's approach to learning. The 5E's must be done in order. Each Scope has all the following E's as tabs with documents that you will use to help students achieve each step to the process.**

**Home Tab:** Provides Unpacked standards, Variety of DOK questions with answers, Answer keys for all activities, describes how the standards are aligned, and a material list that will calculate what you need based on your class size.

**Engage-** Hook activities, that are provided, that provoke inquiry by using student's prior knowledge. The tab provides an estimate of time that you will need to complete the activity.

**Explore-** You can pick and choose which assignments to use under the tabs. You can pick and choose lesson materials based on what you have as long as the core lesson is not jeopardized. It gives teacher directions for the activity

**Explain-** provides videos for students to help students make connections with what they are learning. Teachers are given vocabulary definitions with pictures in this tab. The tab provides Question prompts which is great for writing. STEMscopedia provides a detailed explanation about the standard, and the last page has a resource for what parents can do at home with their child to further their learning of the material.

**Elaborate-** Students are provided cross curricular activities in the areas of math and reading. Teacher are given videos of STEM careers that align with the lesson they are learning. Teacher are given a guide to how to start next level inquiry and research for the standard based on student questions after the activity.

### 3. The Essentials of Scope Continued

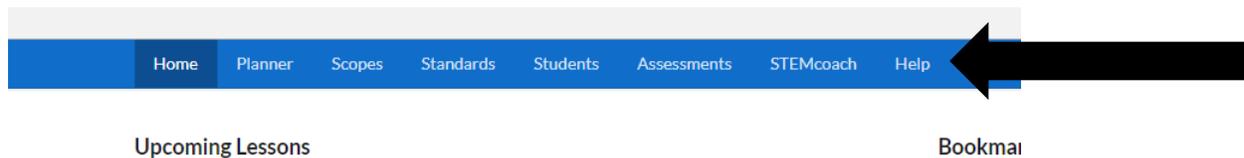
**Evaluate-** Provides multiple assessment in a variety of formats, if you would prefer to create your own though you can use the assessment tab located at the very top of your screen.

**Intervention-** Has modified assignments and quizzes based on the standard.

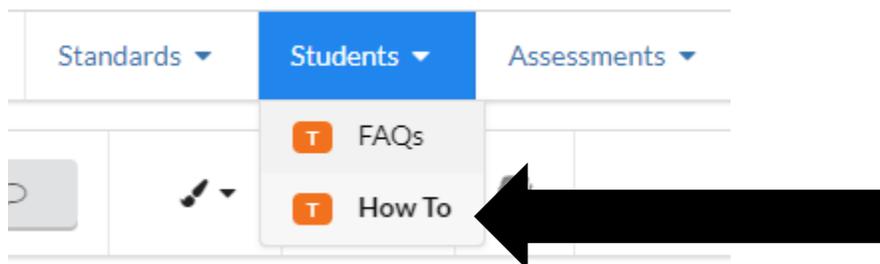
**Acceleration** – extension activities that tie to art curriculum.

### Adding Students

After logging into STEMscopes, click on the HELP tab at the top of the screen.



Next, you will see tab for HELP topics. Hover on the Student Tab and click HOW TO.



Play the video and it will give you step by step instructions! 😊

#### **Students Video Outline**

:40 - Teacher sections

1:14 - Adding students

1:53 - Viewing students' username and password

2:03 - Assignments

2:53 - Viewing student assignments

4:31 - Grade student assignments

5:35 - Grade average and Assignment Snapshot

## 4. How do I create my own Assessment?

Home Planner Scopes Standards Students **Assessments** STEMcoach Help

Assessments **Assessments** 0 Archived 0 Pending 0

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Step 1: Click on add assignment

### New Assessment

Assessment Name

Filter Questions

Standards (optional)

Keyword Search (optional)

Question types

Languages

Available Questions

Which of the following adaptations of a cow helps it to survive by allowing it to eat and digest large amounts of grass?

- A Long, thick tail it can swing about
- B Large, brown eyes with long lashes
- C Wide, flat teeth and four stomachs**
- D Tough, divided hooves and strong legs

Selected Questions

Select questions from the left to start building an assessment.

Step 2: Give the assessment a name.

Step 3: Search questions by key word or standards

Step 4: Choose the question types (you can choose more than 1)

- Multiple choice will be graded for you.
- Open ended you will need to grade later.
- Griddable is not always available

Step 5: Choose the language between English or Spanish.

Step 6: Select your questions and click create assessment.

Step 7: It will take you to another page where you can print out an answer key, edit your test, copy your test, or assign to other students.

## 5. How do I use the planner tool? (It is great for sharing lesson plans)

Before you are allowed to use the planner, you must first set up a class. You can set up a Demo class to practice. You do not need to add students.

Step 1: Click on Students on the top of the screen, then Click add section

**New Teacher Section**

Name

Description

Course number

Archive this teacher section

**Note:** Archiving a teacher section also hides any related assignments on student dashboards.

Learning resources available  
You can click here to select multiple learning resources to be available to your students

[Create this teacher section](#)

Next, name your class then click create this teacher section. Do not fill in the other areas if you have a demo class.

**Elements** Lesson Plans

Search

- Kindergarten
- First Grade
- Second Grade
- Third Grade
- Fourth Grade
- Fifth Grade
- Sixth Grade
- Seventh Grade
- Eighth Grade
- Biology
- Chemistry
- Physics
- Teacher Toolbox
- Help

June 2017 Demo Group month week

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	1	2	3
4	5	6	7	8	9	10
4P1BC Standards	4P1BC Picture W					
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1

**The Planner** Step 1: Go to Planner on your screen, you should see an empty calendar.

## 6. [How do I use the planner tool? \(It is great for sharing lesson plans\)](#) continued

Step 2: Under the elements tab on the left click on your grade level.

Step 3: Next Click on your unit (example Soils)

Step 4: Drag any activities over to when you want to complete them on your calendar. (This includes T for the teacher ones, and S for student ones)

Step 5: Click save when you are finished

Step 6: Click Share to share with your team mates. When sharing name the unit. You can customize the date range if you like. When sharing type the teachers name you want to share with before clicking share the lesson plan.

**Share Lesson Plan**

Name

Start date

End date

Teachers to Share With

Note (Optional)

[Share Lesson Plan](#)

### **When someone shares lesson plans with you**

Step 1: Go to the planner

Step 2: Click on lesson plans

Step 3: Accept the lesson plans and click on the class you wish to export the plans too.

\* Once the plans are complete on the calendar you can click on the plans (the blue circle with the standard inside) and it will take you directly to the stem scope activity without having to search for it on the SCOPES tab.

4	5	6	7	8
4P1BC Standards	4P1BC Picture V			

## 7. What is the Teacher Toolbox?

**Step 1:** click on scopes and then click teacher toolbox. Once your in the toolbox click whichever area you specialize in.

The screenshot shows the top navigation bar of the STEMscopes website with tabs for Home, Planner, Scopes, Standards, Students, Assessments, STEMcoach, and Help. A user profile for 'shatzileris' is visible. Below the navigation bar, there are two tabs: 'All Scopes' (selected) and 'Bookmarks'. A search bar is present. On the left, there are filters for 'Grades' and 'Topics'. The main content area features a 'Teacher Toolbox' section with three options: 'Teacher Toolbox: Elementary', 'Teacher Toolbox: Middle School', and 'Teacher Toolbox: High School'. Each option includes a photo of a wooden toolbox and a 'GATTB' label. A 'Use Teacher Toolbox' button is also visible.

**Step 2:** click on the tab you need.

The screenshot shows the 'Teacher Toolbox: Elementary' page. The page title is 'Teacher Toolbox: Elementary' with a 'Bookmark Scope' button. Below the title are filters for 'Topic: Teacher Toolbox' and 'Grade: Teacher Toolbox'. A navigation bar includes 'Home', 'Resources', 'Interventions', 'Literacy', 'Nature of Science', and 'Interactives', along with an 'All' menu icon. The 'Overview' section is highlighted, featuring an information icon and the text: 'The STEMscopes Teacher Toolbox features a variety of resources and tools to the get most out of your STEMscopes experience. In the Toolbox you can browse the following sections:'. A bulleted list follows: 'Resources: Scope Lists, Lesson Planning Documents, and Materials Lists', 'Interventions: Strategies for supporting students who exhibit roadblock behaviors', 'Literacy: Vocabulary resources and Linking Literacy tools', 'Interactives: Online simulations to promote student engagement', and 'Nature of Science: Instructional resources and assessments for gaining experience with scientific practices'.

**Home-** gives you an overview of what you will find in the tabs

**Resources-** Has everything from student roles to a daily scope passing guide for the 5 E's. They have lesson plans, and materials need for inquiry by grade level.

## 8. What is the Teacher Toolbox?

**Interventions-** gives realistic scenarios with guides on multiple strategies to fix the area of need whether it is behavior, cognitive development for student who struggle with a concept, Communication development for students who do not work well with others, physical development, Adaptive development ideas for students who struggle with classroom procedures, and RTI support

**Literacy** – This provides graphic organizers with directions on how to use them appropriately per grade level, Lexile chart, and vocabulary list K-5. They also have more vocabulary assistance in the SCOPE Lesson plans.

**Nature of Science-** Has activities in English and Spanish to help students with the scientific process. It is not necessarily correlated with a standard.

**Interactives** – videos and games that are for all grades k-5

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Updated 8/7/17 (S. Graham)