CARNEGIE LEARNING

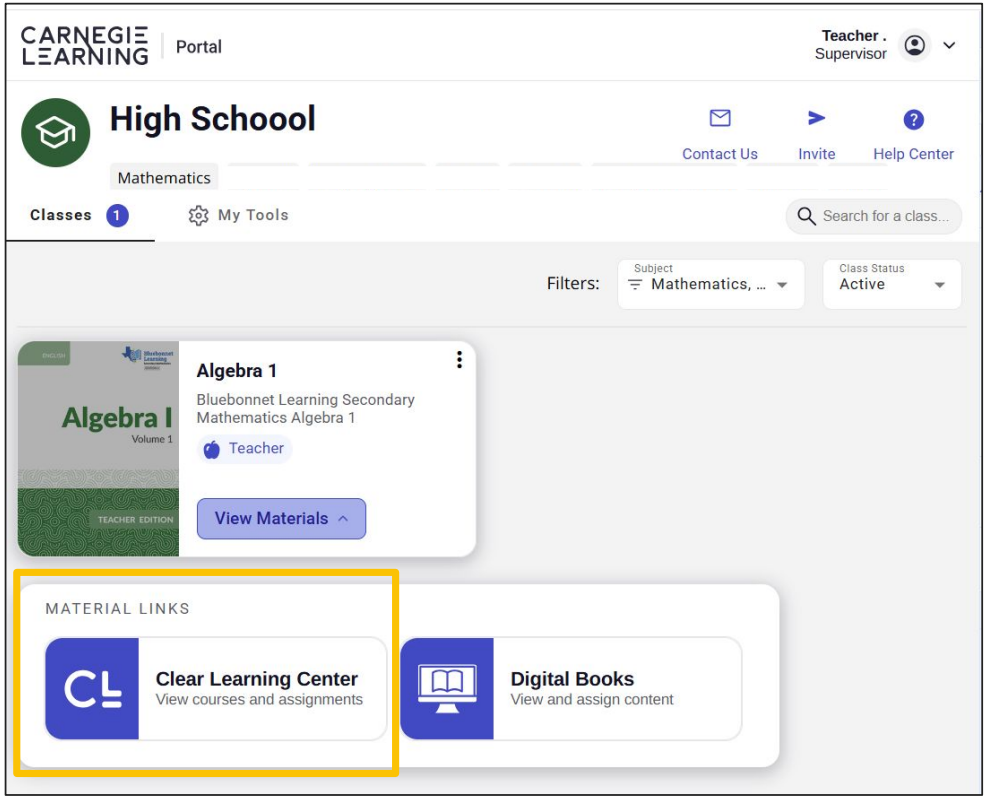
MATHia® + MATHstream®

Guidance for Educators

To Access MATHia & MATHstream

From your Carnegie Learning Portal

- Navigate to a class
- Click **View Materials**
- Select **The Clear Learning Center**



MATHia: Teacher Guidance

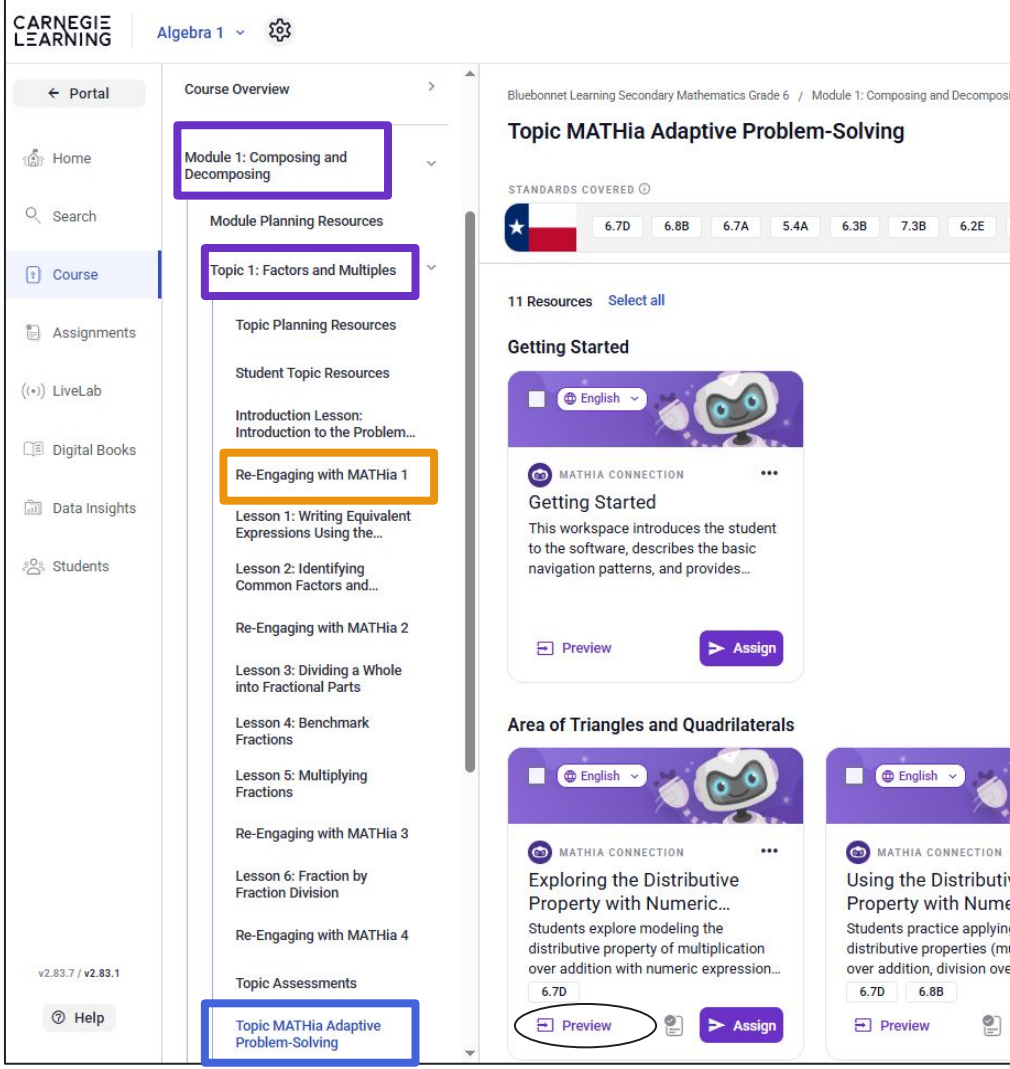
MATHia Scaffolds, Enrichment & Accommodations: Teacher Guidance

Scaffold & Enrichment opportunities are built into the structure of the program. Within each Topic, opportunities to re-engage with lesson content in MATHia are dispersed strategically between lessons. These opportunities provide students the time to complete the MATHia for each topic. Students who are ready can also work ahead in the topic or course.

Teachers can assign the workspaces at the topic-level or at the lesson-level.

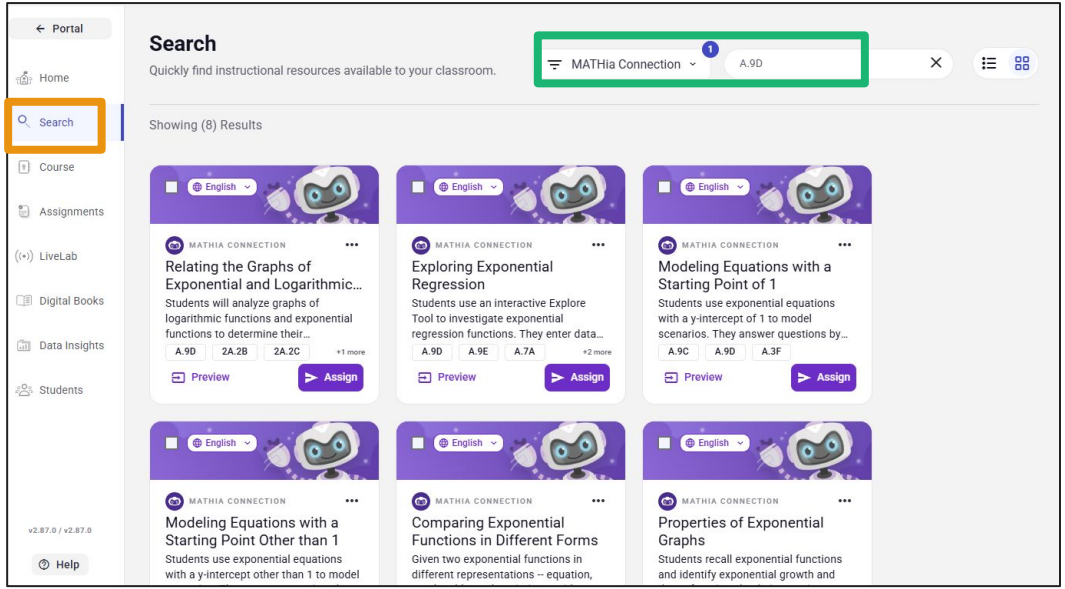
- To get started, select the desired **Module and Topic**
- To assign the MATHia workspaces for the entire topic, navigate to ***Topic MATHia Adaptive Problem-Solving***
- To assign for smaller groups of lessons within the topic, select the ***Re-Engaging with MATHia***
- Students can show both content flexibility and mastery of learning by responding to a range of question types in MATHia

Teachers can **Preview** the workspace before assigning.



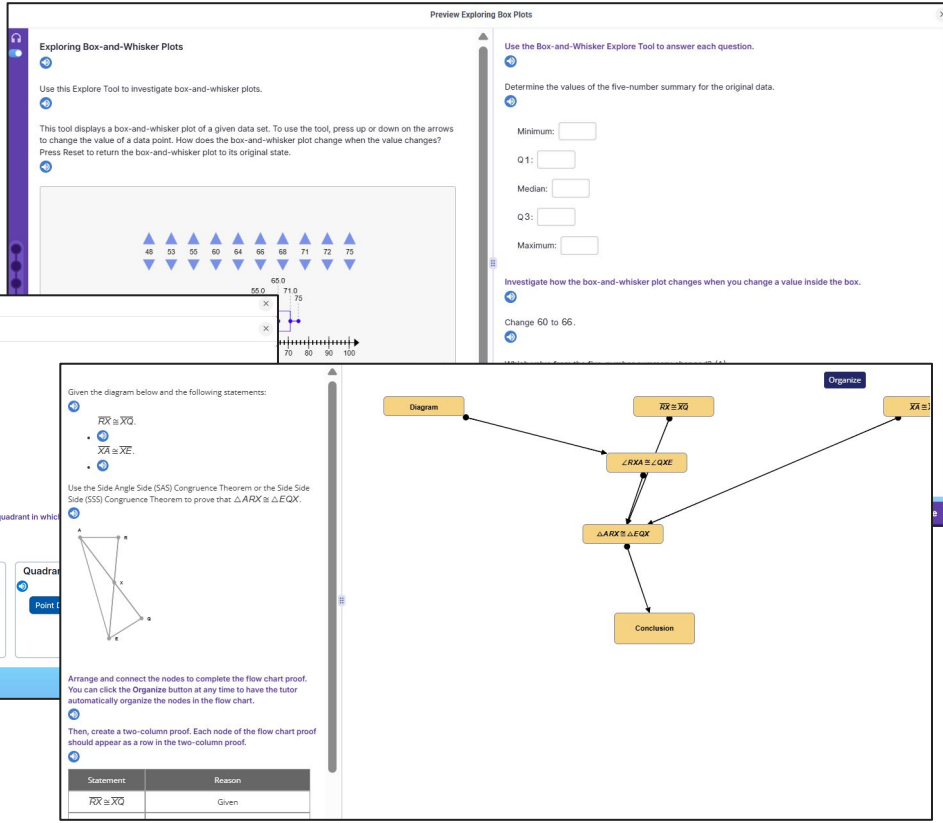
MATHia: Scaffolds & Enrichment

Using the **Search** feature, teachers can **search by keyword/standard** to identify MATHia workspaces and provide opportunities for students to extend learning in other courses and to provide necessary scaffolding for readiness skills.



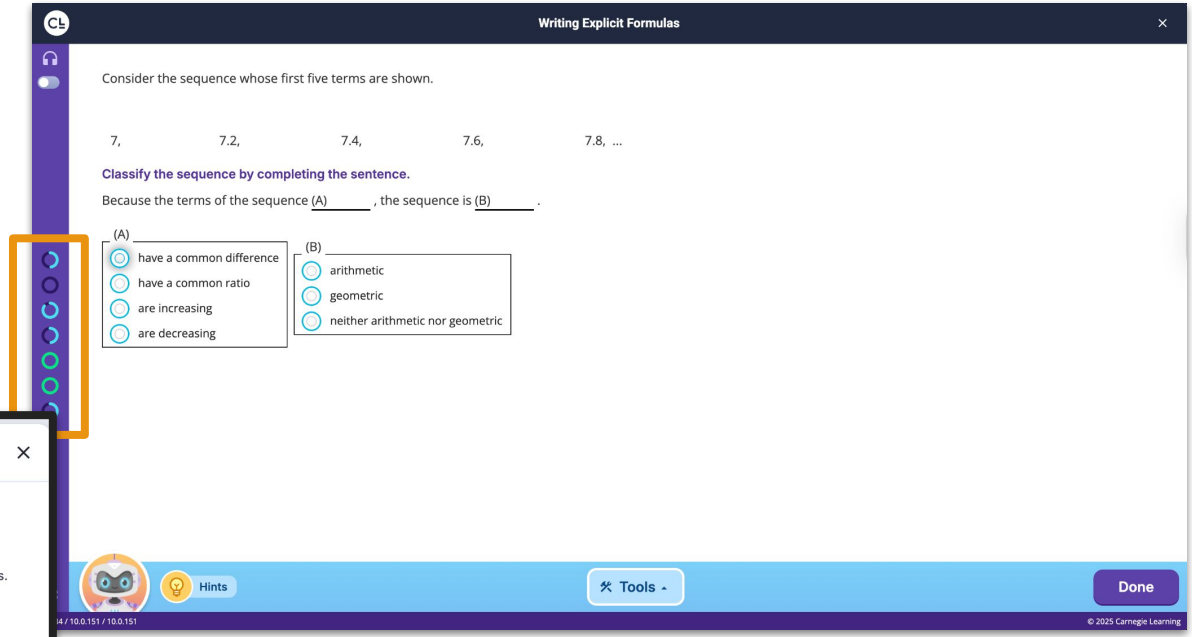
MATHia: Demonstration of Learning

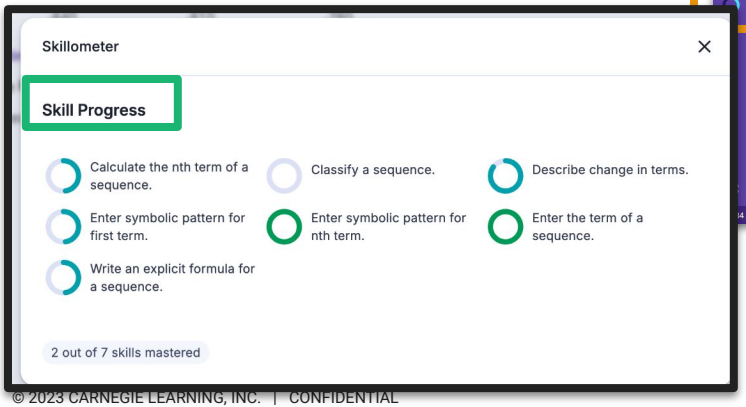
Teachers can preview how students demonstrate flexibility in showing mastery through a variety of question types using different models and representations beyond multiple choice experiences.



MATHia: Self-Paced Learning

Students can track their progress in the problem and identify where they need support.

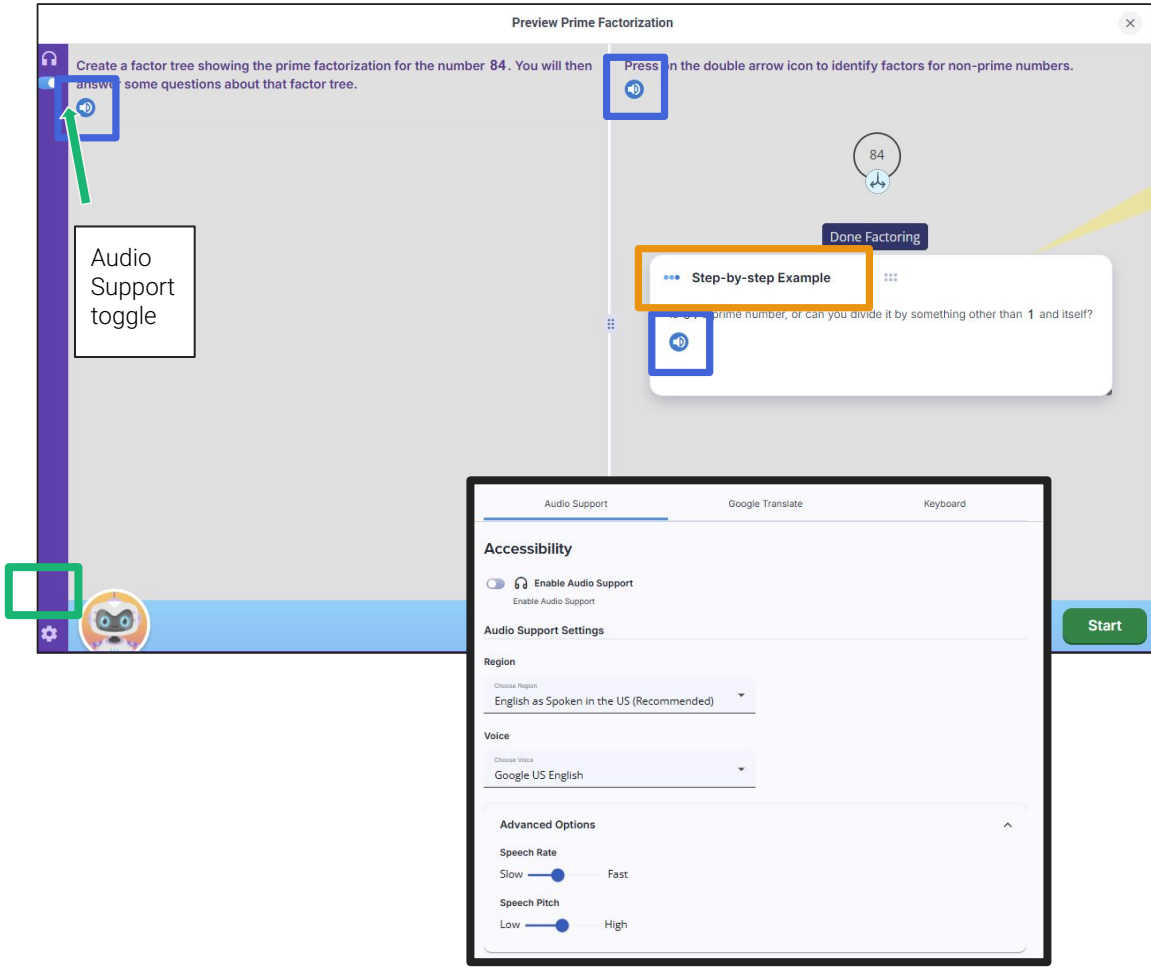




MATHia: Student Preferences

These scaffolds are accessible to students in MATHia workspaces. Teacher can view them via the Teacher Workspace Preview:

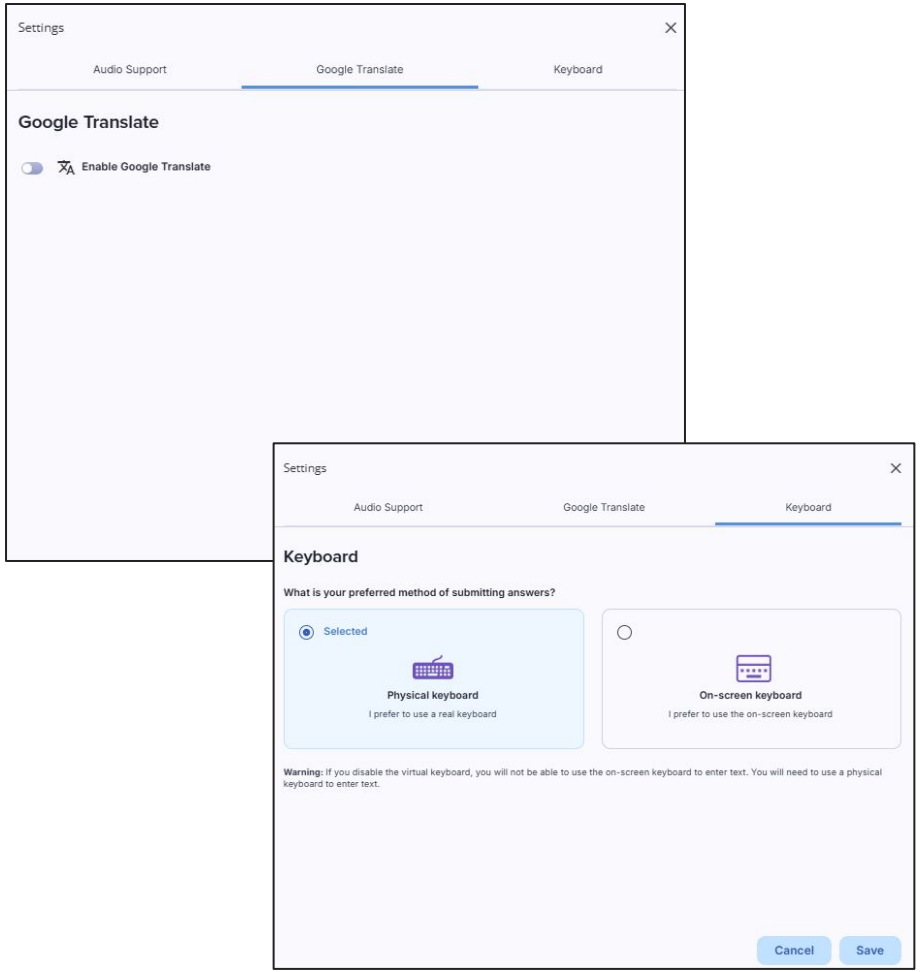
- **Step-by-step Examples** support students to connect key patterns, features, and relationships within the workspace.
- **Audio Support** provides text-to-speech functionality for students to make cross-linguistic connections through oral and written language. Additional Audio Support preferences can be enabled and adjusted via **Student Preferences**.



MATHia: Student Preferences

Within the Preferences menu, students can also:

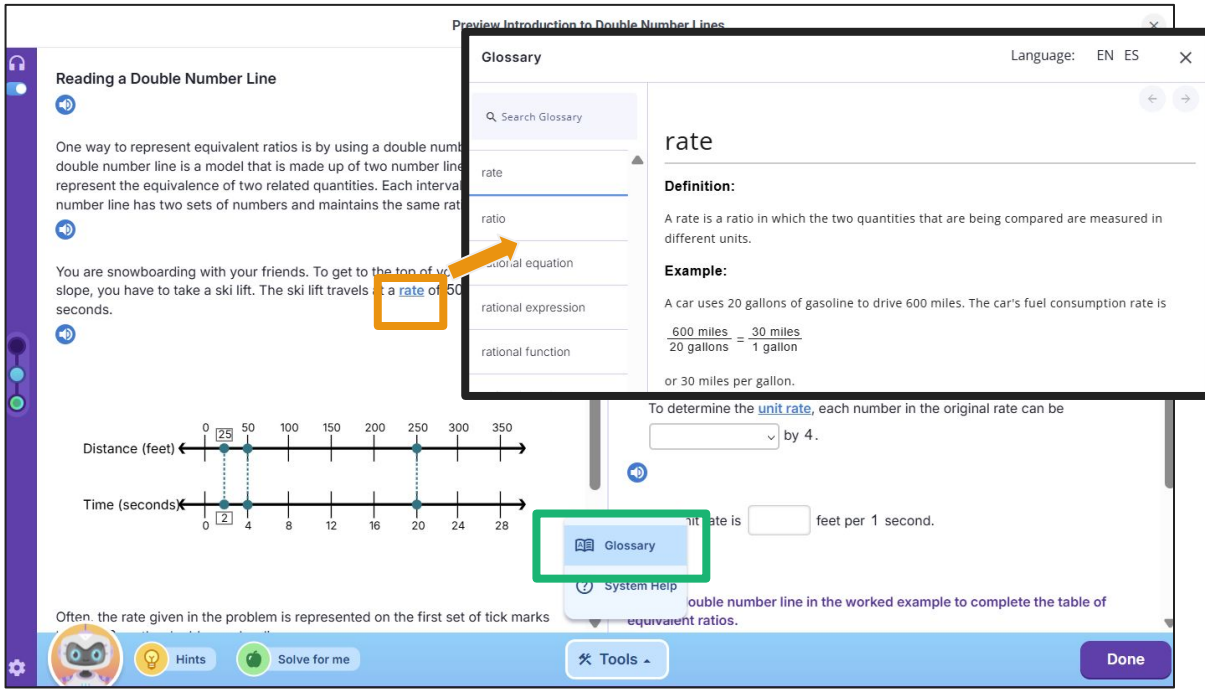
- Enable **Google Translate** to make cross-linguistic connections and increase comprehension of academic vocabulary. These language supports meet the needs of individual students.
- Select between a physical or on-screen **Keyboard** to accommodate different student tools to meet their needs.



Previewing a Workspace: Student Scaffolds

These scaffolds are accessible to students in MATHia workspaces. Teachers can view them via the Teacher Workspace Preview. They can also project the MATHia workspace to the whole class to support academic vocabulary development and demonstrate the use of instructional scaffolds.

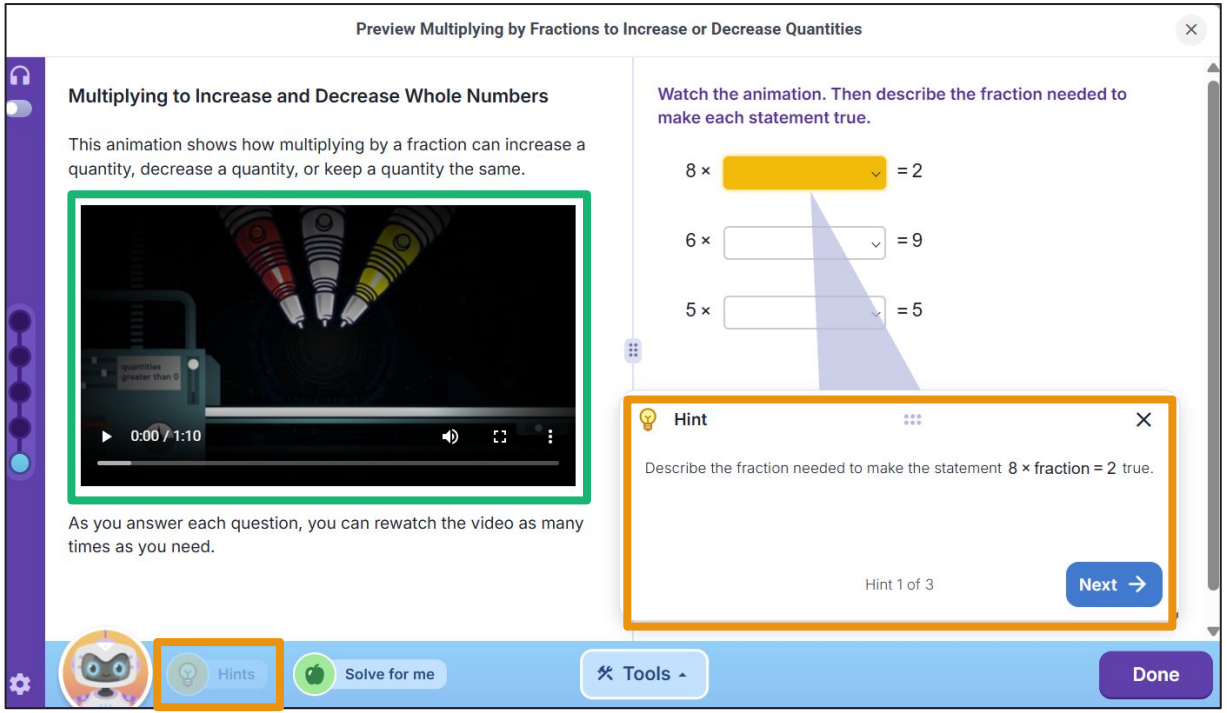
- **Glossary**, which is available in Spanish and English and accessible at any time via Tools, supports students as they develop academic vocabulary, increasing comprehension and build background knowledge.
- **Key Terms** are highlighted throughout workspaces and hyperlinked to the glossary at the point of use for students and teachers



Previewing a Workspace: Student Scaffolds

These scaffolds are accessible to students in MATHia workspaces. Teachers can view them via the Teacher Workspace Preview.

- **Videos** provide multiple means of representation and engagement. They included closed captioning to support students in making cross-linguistic connections as they watch and rewatch as often as needed.
- **Hints** to support learners in selecting the most efficient approaches when solving problems. They provide explicit guidance for students as needed, either on demand or just-in-time.

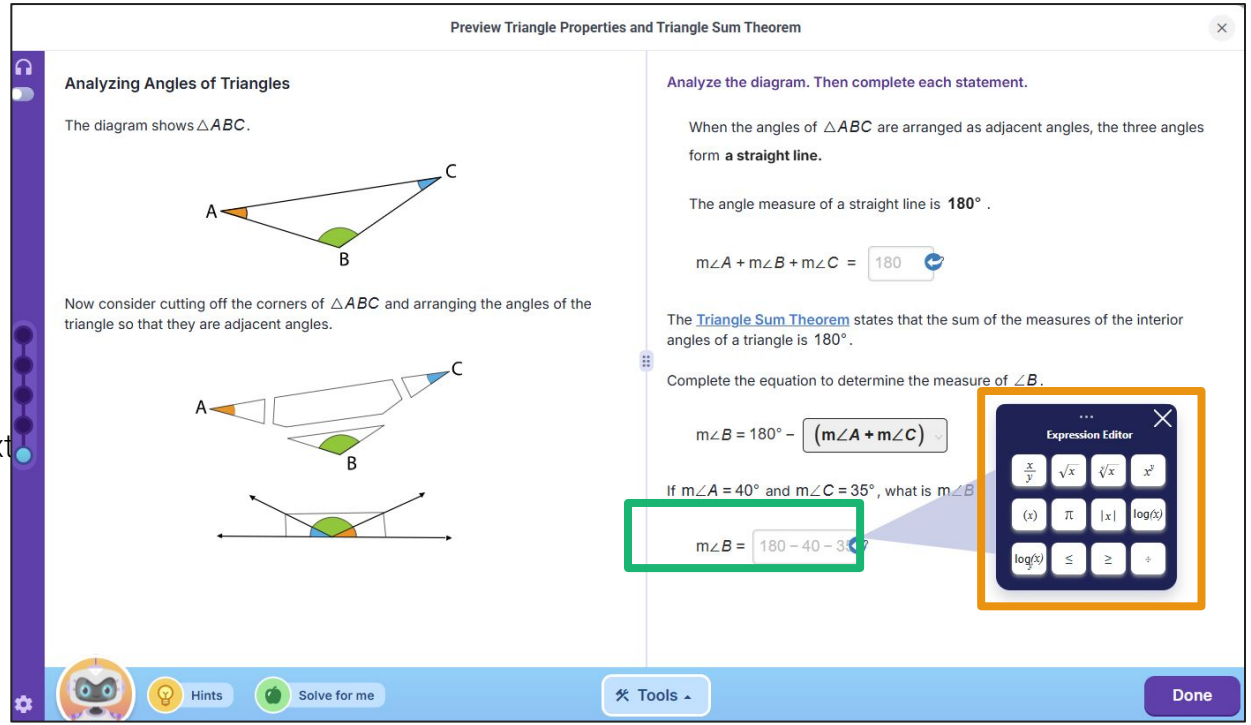


Previewing a Workspace: Student Scaffolds

These scaffolds are accessible to students in MATHia workspaces. Teachers can view them via the Teacher Workspace Preview.

- **Auto Calculation Tool** is available inside the text field for certain problems. Students can use their keypad to enter an expression into the text field.
- **Expression Editor** is available for more complex problems by selecting the down arrow in the text field.

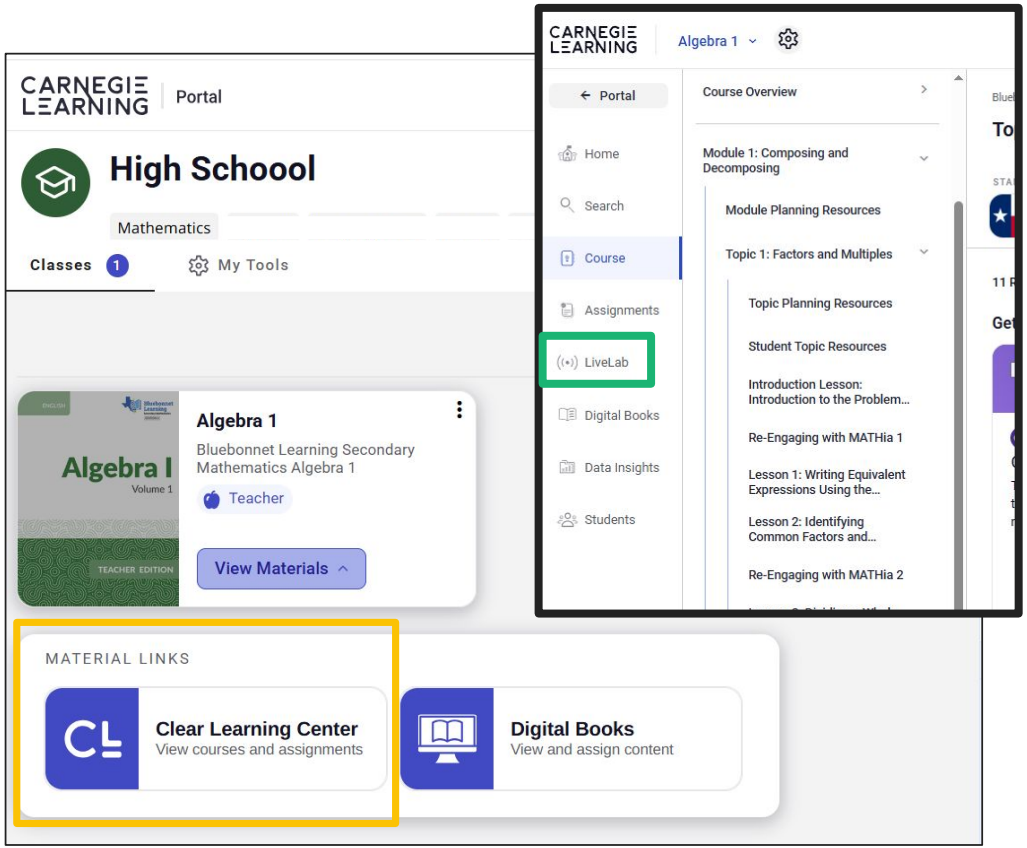
These scaffolds help advanced students identify patterns and support students who have not yet reached proficiency in prerequisite fluency skills engage in grade-level mathematics.



Using LiveLab to Support Learners: The Teacher's Guide

To access LiveLab from your Carnegie Learning Portal:

- Navigate to a class
- Click **View Materials**
- Select **Clear Learning Center**
- Select **LiveLab** from the left panel in the Clear Learning Center



Using LiveLab to Support Learners: The Teacher's Guide

LiveLab is Carnegie Learning's live facilitation tool that empowers teachers with in-the-moment, actionable data. It is available after teachers have signed in while students are working in MATHia.

LiveLab notifications allow teachers to recognize students progressing through their content or help those who are unable to master specific skills or complete certain activities.

Clicking on Group by Workspace will arrange students by their current workspace, allowing you to easily support multiple students at a time.

Clicking on Table Options in the upper right corner of the LiveLab screen allows you to prioritize At-Risk Students.

Using LiveLab to Support Learners: The Teacher's Guide

Idle
Students who are signed in but have had zero activity in the last 5 minutes

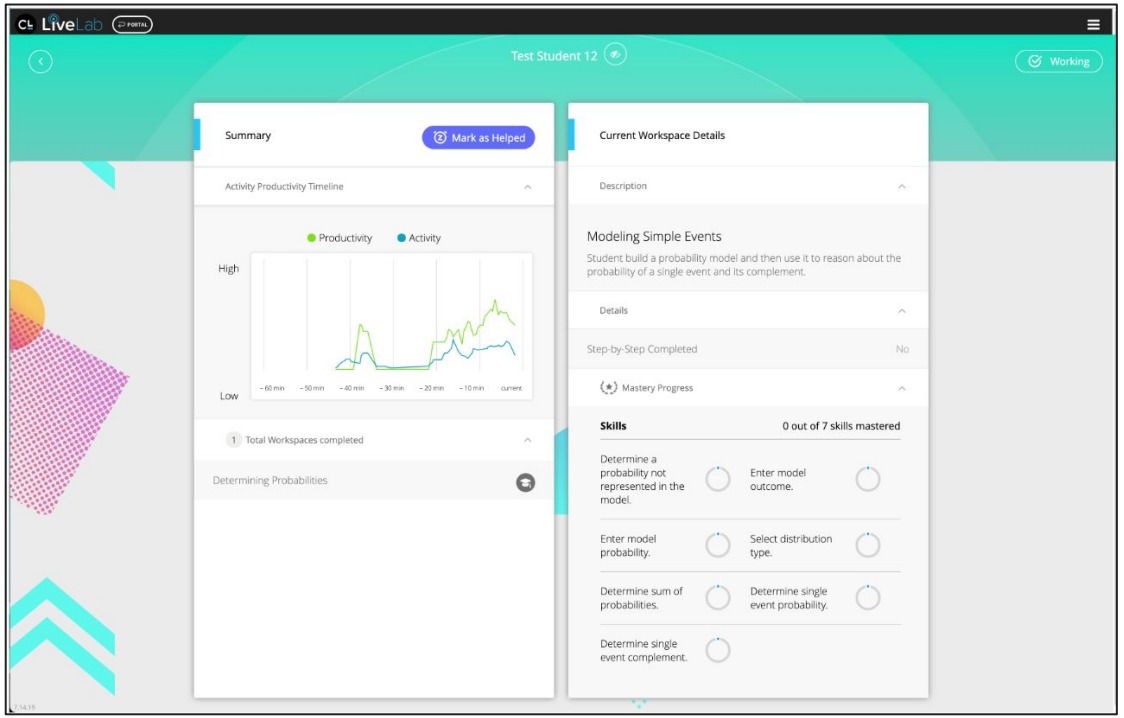
Monitor
Students who are in need of teacher support, relative to the rest of the class

Working
Students who are actively working through assigned MATHia workspaces

Offline
Students who are not currently logged in to MATHia

Using LiveLab to Support Learners: The Teacher's Guide

Click on any student's name to see a more detailed view of the work they've completed in MATHia during the session.



MATHstream: Teacher Guidance

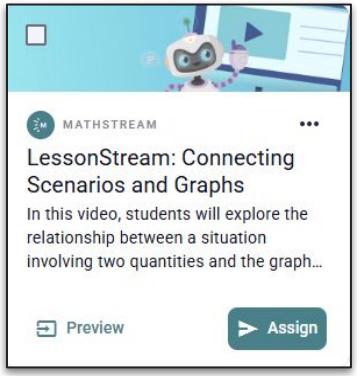
Initial Instruction vs. Re-Engagement

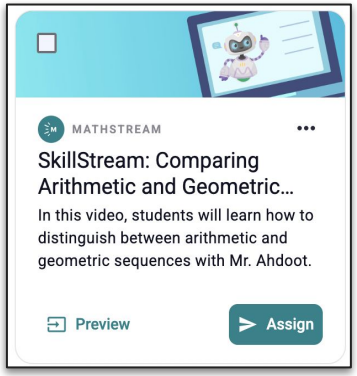
LessonStreams

- Initial Instruction
- Aligned to MATHbook Lessons/Activities (shares problems with textbook)
- **Best for**: Absent students, substitute days, or days when a math subject matter expert isn't in the classroom.
- **Located**: At the lesson level in the Course tree

SkillStreams

- Readiness and Re-Engagement
- Smaller chunks of content than LessonStreams
- **Best for**: Students needing support with readiness standards or re-engaging in content
- **Located:** In Intervention Resources at the Topic Level in the Digital Course



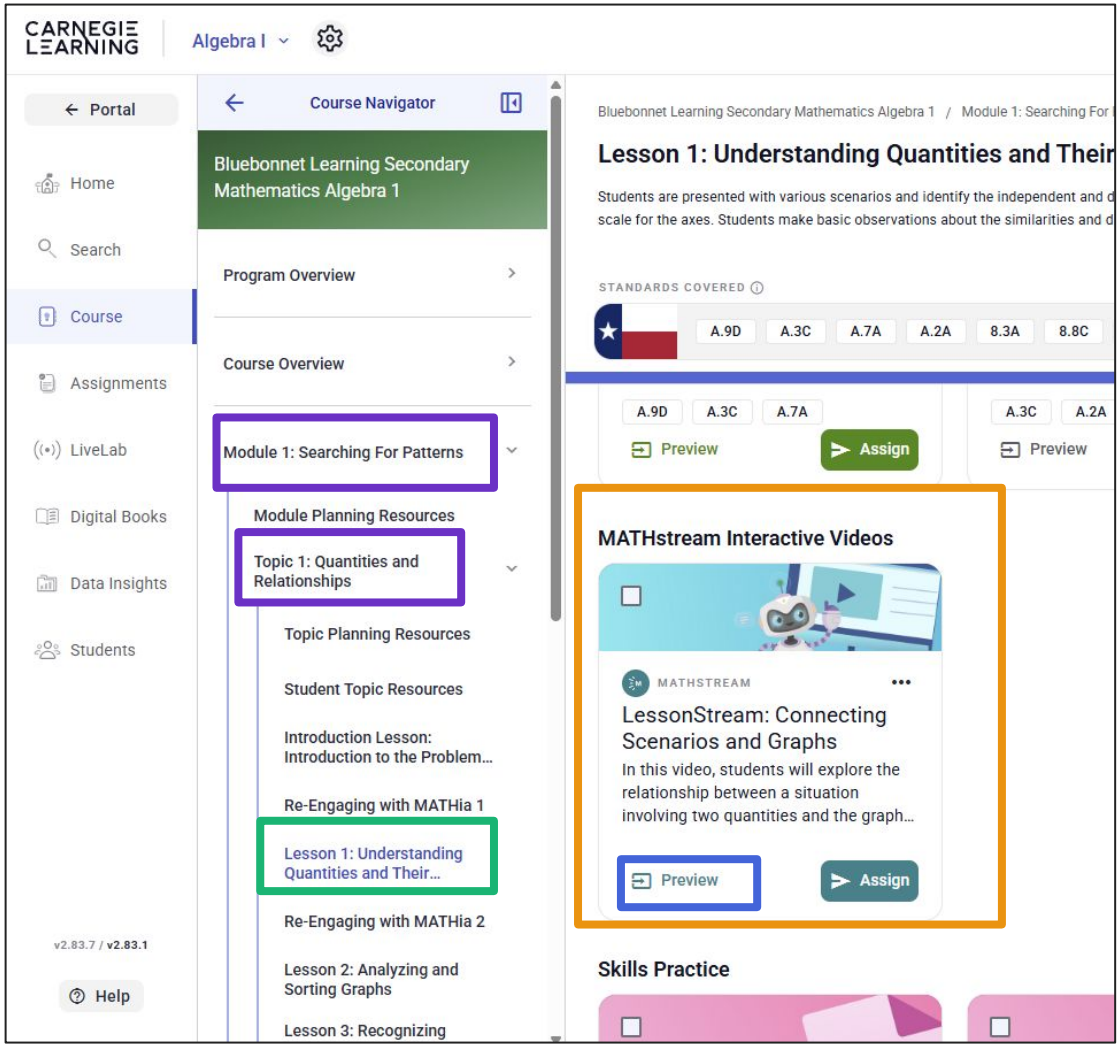


LessonStreams

Enrichment is built into the structure of the program and organized for convenient implementation. LessonStreams aligned to the lesson content are located at the lesson level.

- To get started, select the desired **Module and Topic**
- Navigate to and select the desired **Lesson**
- Within the lesson page, scroll down to **MATHstream Interactive Videos**

Teachers can **Preview** the LessonStream before assigning.

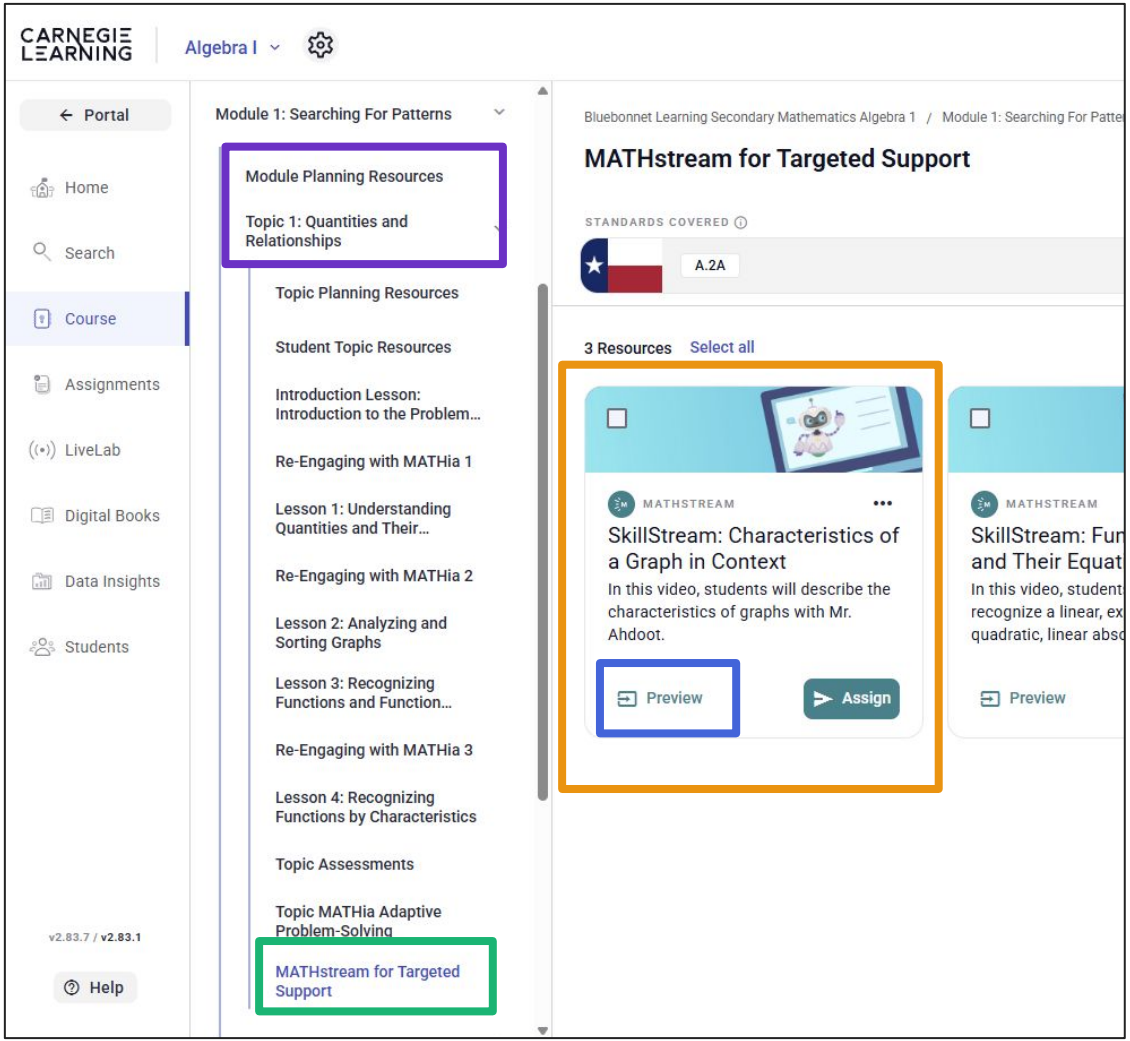


SkillStreams

SkillStreams focus on smaller chunks of content than LessonStreams. Teachers can use them for intervention and support with specific skills, providing students with support on readiness standards or in re-engaging with content.

- To get started, select the desired **Module and Topic**
- Scroll down to **MATHstream for Targeted Support**
- Select the desired **SkillStream**

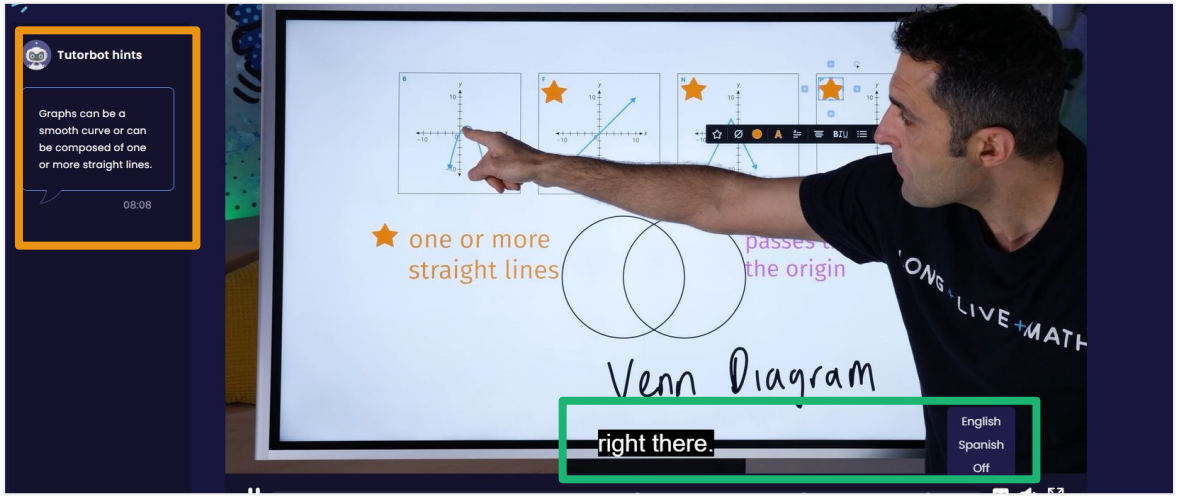
Teachers can **Preview** the SkillStream before assigning.



Previewing a MATHstream: Student Scaffolds

These scaffolds are accessible to students in MATHstream. Teachers can view them via the Teacher MATHstream Preview.

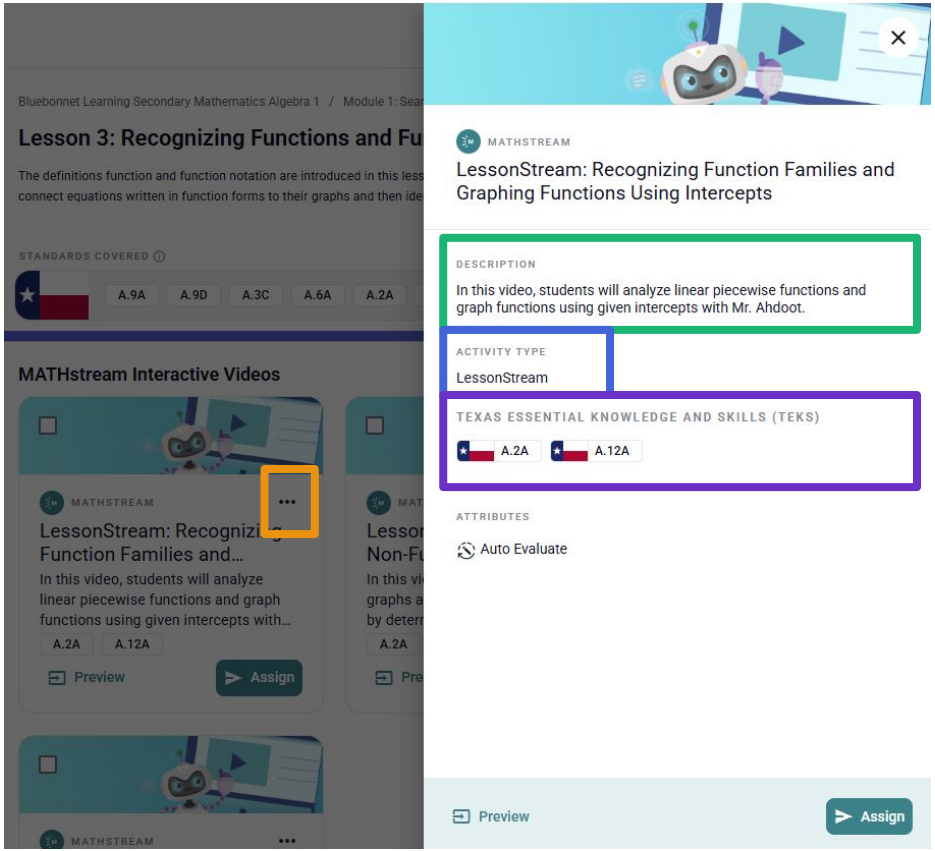
- **English/Spanish Language Captions**
- Just in Time **TutorBot Hints**
- Recorded instructor-led explorations



MATHstream: Detailed View

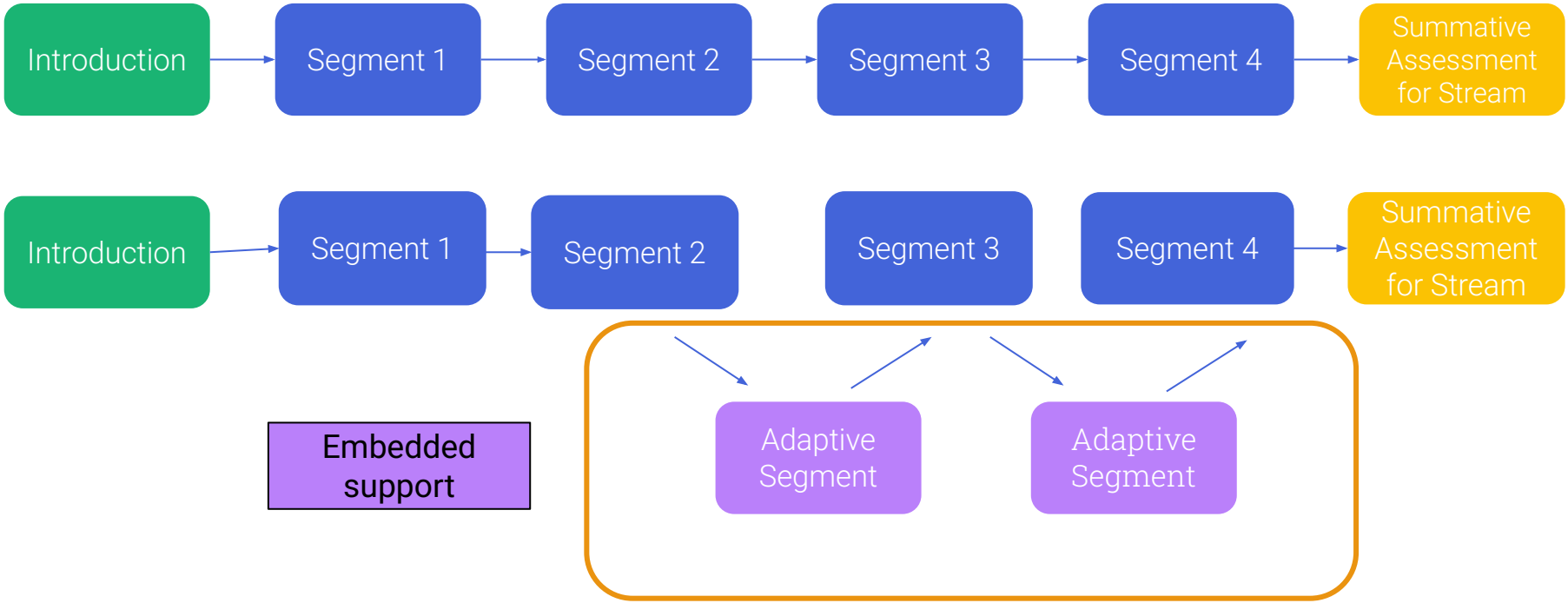
Teachers can **View Details** for each MATHstream by clicking on the **three dots**. The details pop out provides:

- Full **Description** of the stream
- **Activity Type**: LessonStream or SkillStream
- **TEKS** addressed in the selected MATHstream



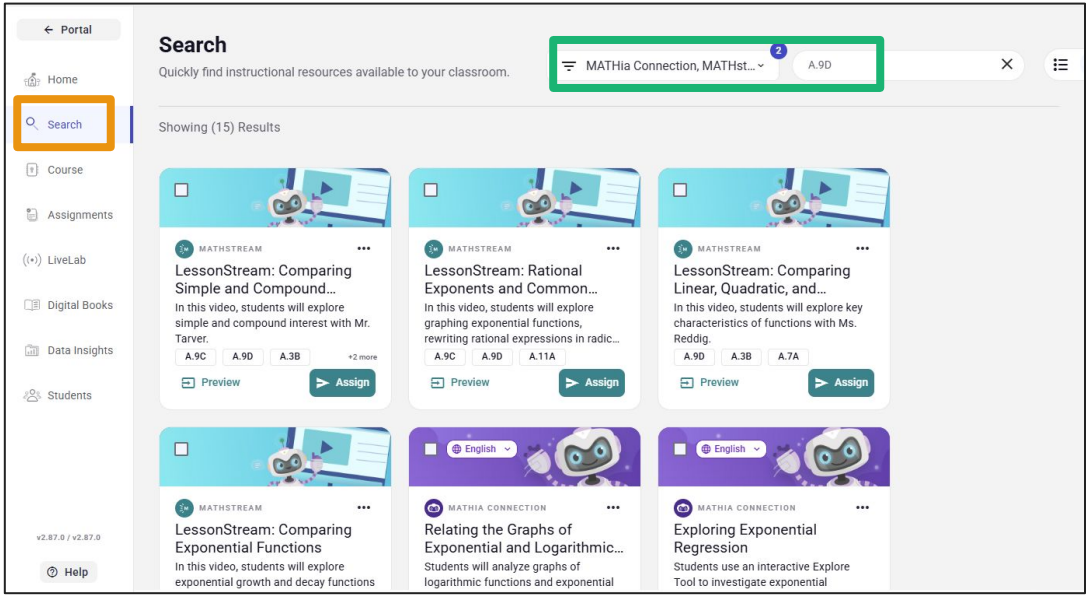
MATHstream Adaptation

Adaptation to students' needs is implemented automatically as needed:



MATHstream Scaffolds

Using the **Search** feature, teachers can **search by keyword/standard** to identify MATHstreams and provide necessary scaffolding for readiness skills.



MATHstream Scaffolds

Hints support students in selecting the most efficient approaches when solving problems, providing explicit guidance for students.