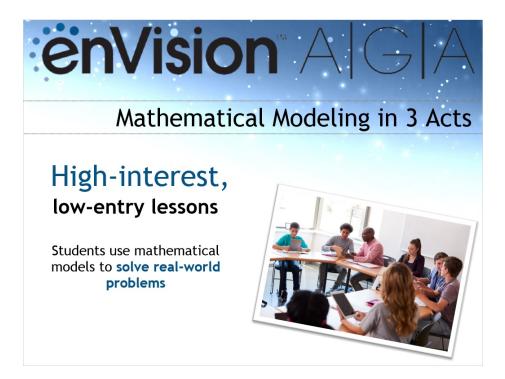


enVision A|G|A Mathematical Modeling in 3 Acts

Introduction



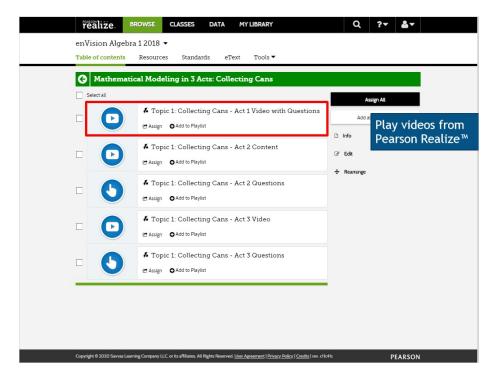
Hi, enVision teachers!

Let's learn about Mathematical Modeling in 3 Acts lessons.

These high-interest, low-entry lessons help students learn to use mathematical models to solve real-world problems.



Planning and Pacing



There is a Mathematical Modeling in 3 Acts lesson in every topic; plan to teach it as the lesson for the day.

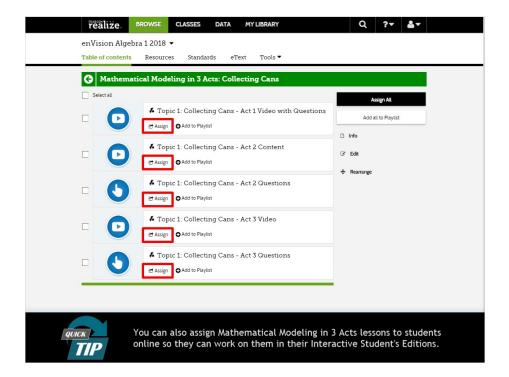
The lesson may occur at the beginning, in the middle, or at the end of a topic, depending on when students will have learned the relevant content. Find pacing details in the Table of Contents of your Teacher's Edition.

Use the Topic Overview to preview and plan for the task. Use the Mathematical Modeling in 3 Acts preview page in the Student's Edition to generate your students' interest at the beginning of the topic.

When teaching the lesson, play the videos from your computer and have students record their ideas at each step.

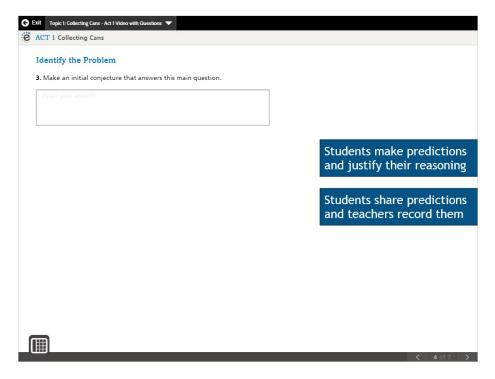


Quick Tip





Act 1: The Hook



In Act 1: The Hook, play the Act 1 video. The video presents a problem situation and provides just enough information to get students thinking and talking.

Give students time to brainstorm possible questions they have about the video. Students can write their questions in the Interactive Student's Edition, in the optional *Student Companion*, or on paper.

Have students share some of their questions, and then reveal the Main Question.

Give students time to predict answers to the Main Question and justify their reasoning. Finally, ask them to share their ideas and record their predictions for the whole class to see.



Act 2: The Model



In Act 2: The Model, ask students to identify information they need to answer the Main Question.

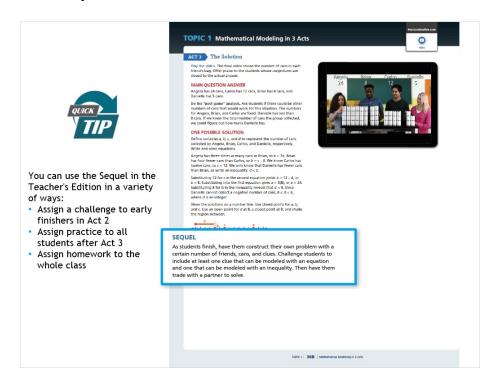
After you collect students' ideas, reveal the information in Act 2. Ask students to discuss whether this information matches their expectations and predictions.

Then ask students to work individually to develop a model and solution to the Main Question. Encourage them to use any model to arrive at a solution that makes sense to them.

Have students share and discuss their strategies. Make sure to discuss a variety of different models and solutions.

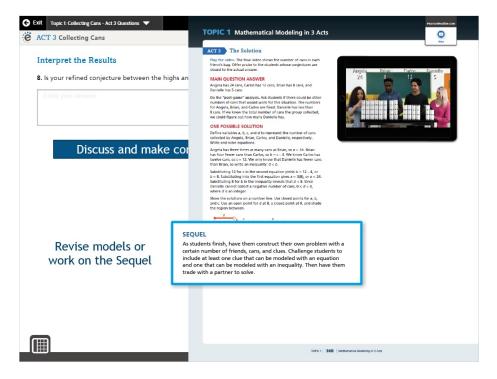


Quick Tip





Act 3: The Solution



In Act 3: The Solution, play the video to reveal an answer to the Main Question.

Give students time to reflect on, analyze, and explain differences between their answers and the actual solution. Lead a discussion to help students make connections.

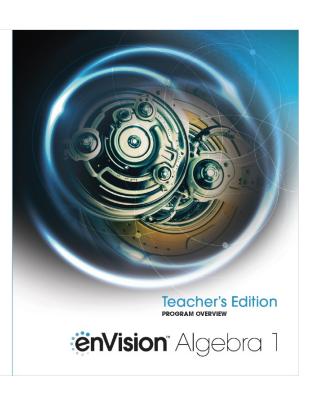
Finally, give students time to revise their models or work on the Sequel.



Quick Tip



For more information, check out the Mathematical Modeling in 3 Acts section of your Teacher's Edition Program Overview.





Closing



Thanks for learning more about Mathematical Modeling in 3 Acts lessons. These tasks provide an engaging way for students to learn mathematical modeling skills that they'll use throughout their lives!

Keep digging in to My Savvas Training to learn more about **enVision** Mathematics.