

Measuring Area

Lesson Plan

Lesson Overview: In this lesson, students will use concrete models to show and count the area of rectangles, conclude that the area of a rectangle is the number of non-overlapping rectangles it takes to completely cover the rectangle, and then solve problems involving the area of rectangles. TEKS: 2.9F

	Procedures	Facilitation Questions	Advance Preparation
Engage	 Provide each student with a copy of the Engage Activity Sheet and color tiles. Play the video for the class. Assist students as needed as they complete the activity. If desired, display the Engage Answer Key. 	 Are your tiles touching each other as you cover the rectangle? Are any of the tiles overlapping? How many tiles does it take to cover the part of the rectangle next to one of the sides? 	 Copies of the Engage Activity Sheet for each student. Color tiles (12 for each student)
Explore	 Provide students with the Explore Activity Sheet and 2 rectangles from grid paper (Explore Activity Master). Play the video for the class. Assist students as needed as they complete the activity. If desired, display the Explore Answer Key. Use the video to facilitate a whole-class discussion of the debriefing questions. 	 How many squares are in each row of the rectangle? How many rows are in each rectangle? 	 Copies of the Explore Activity Sheet for each student Grid paper cut up into rectangles to be used with the Journal Entry (use Explore Activity Master if necessary), 2 rectangles for each student
Explain	 Arrange students in pairs. Provide students with the Explain Activity Sheet. Play the video. Pause the video while students record their Journal Entry in their Math Journals. Provide each student pair with 2 dice (number cubes). Follow the directions in the Explain Answer Key to facilitate an activity with students. To differentiate for the struggling learner, provide students with square-inch grid paper (Mission Support Sheet) and/or color tiles. Facilitate students as needed. 	 What do the 2 numbers you rolled tell you about the size of the rectangle? How can you build that with color tiles? How can you skip count to determine the area of your rectangle? 	 Copies of the Explain Activity Sheet for each student pair Color tiles (up to 36 for each student pair), optional Dice (2 for each student pair) Make copies of square- inch grid paper (Mission Support Sheet) for students as needed.
Elaborate	 Provide each student with the Elaborate Activity Sheet and color tiles. Play the video. Pause the video while students record their Journal Entry in their Math Journals. Assist students as needed as they solve the problems on the activity sheet. Facilitate students as needed. To differentiate for the struggling learner, provide students with square-inch grid paper (Mission Support Sheet) and/or color tiles. If desired, display the Elaborate Answer Key. 	 How can you draw the rectangle? Label the side lengths of each rectangle. How can you use that information to solve the problem? How could skip counting help you determine the area of the rectangle? 	 Copies of the Elaborate Activity Sheet for each student Color Tiles (12 for each student) Make copies of the Mission Support Sheet for students as needed.
Evaluate	 Display the Evaluate Activity Sheet. Have students complete the activity in their Math Journal. 		 Access to Math Journals If desired make a copy of the Evaluation Questions for each student.

