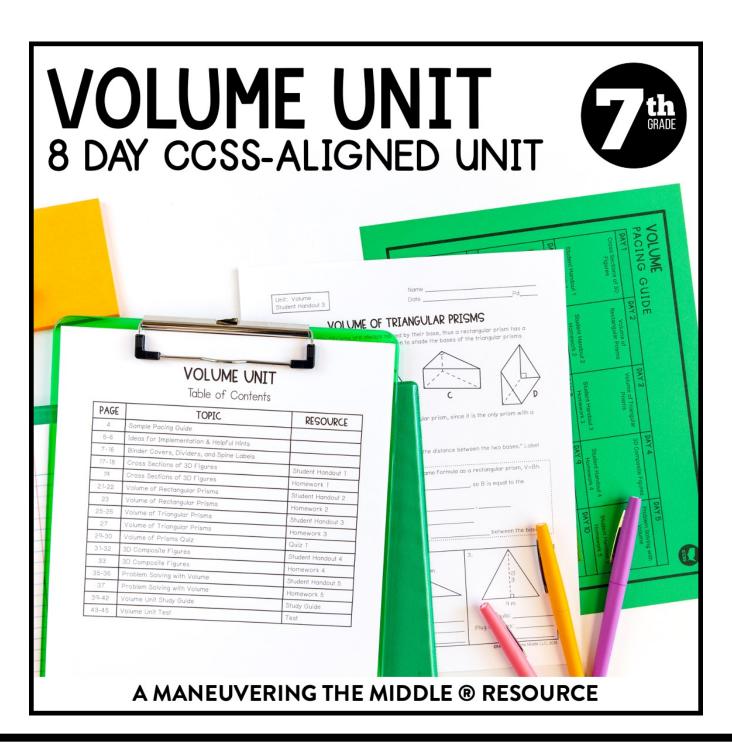
learning focus:

- describe 2D figures that result from slicing 3D figures
- \checkmark determine the volume of prisms
- understand and apply volume of rectangular and triangular prisms to real-world situations





an 8 day CCSS-aligned unit CCSS: 7.G.6

ready-to-go, scaffolded student materials

VOLUME UNIT

Table of Contents

PAGE	TOPIC	RESOURCE
4	Sample Pacing Guide	
5-6	Ideas for Implementation & Helpful Hints	
7-16	Binder Covers, Dividers, and Spine Labels	
17-18	Cross Sections of 3D Figures	Student Handout 1
19	Cross Sections of 3D Figures	Homework 1
21-22	Volume of Rectangular Prisms	Student Handout 2
23	Volume of Rectangular Prisms	Homework 2
25-26	Volume of Triangular Prisms	Student Handout 3
27	Volume of Triangular Prisms	Homework 3
29-30	Volume of Prisms Quiz	Quiz 1
31-32	3D Composite Figures	Student Handout 4
33	3D Composite Figures	Homework 4
35-36	Volume Application	Student Handout 5
37	Volume Application	Homework 5
39-41	Volume Unit Study Guide	Study Guide
43-45	Volume Unit Test	Test

©Maneuvering the Middle LLC, 2016



an 8 day CCSS-aligned unit

CCSS: 7.G.6

student friendly + real-world application

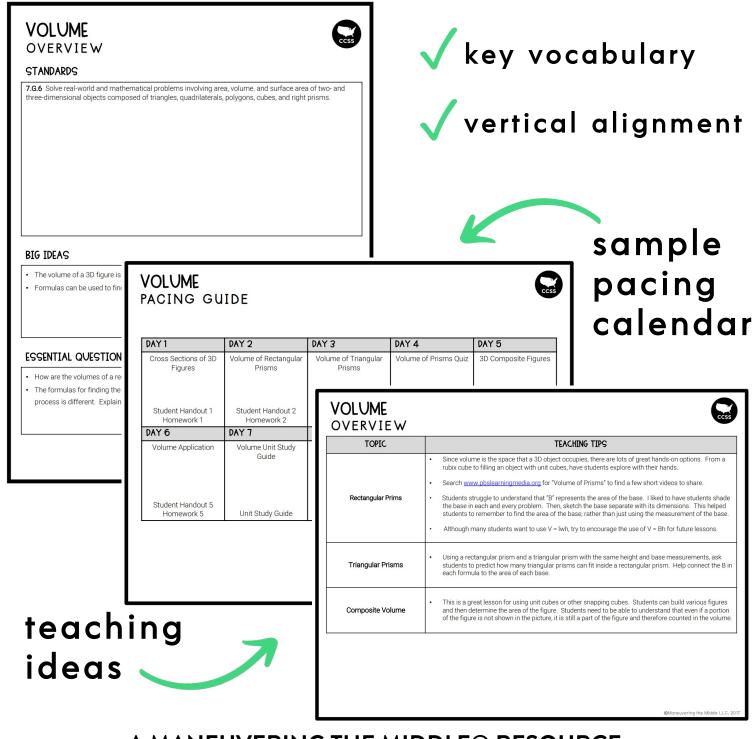
Unit: Volume Student Handout 1 CROSS SECTIO Mac and Jack are each chopping a log shaped the cylinders representing each log below to a a. Mac chops a log in half and the 2D shape to a circle. Sketch a line to show where the have made a cut in his log. b. Jack chops a log in half and the 2 sees is a rectangle. Sketch a line where Jack might have made a company of the sees o	answer a and b. The sees is 3. For each 3D figure in a-c, sketch the a	Pd cross section based on the given direction of the cut. TO BASE PERPENDICULAR TO BASE AT AN ANGLE	graphic organizers
The direction of the cut and its effect on PARALLEL TO BASE PERPEN The cross section will match the shape of the face. In 1-2, describe the direction of the cut an 1. DIRECTION: CROSS SECTION:	A. Three students each sliced one of the 3D figures shown at the right. Use the clues below to write the name of the student under their figure. Harper and Randy will have the same cross section shape if they each cut perpendicular to the base of their figure. Su will page 1.	Solve each question. Use the letter of each correblank(s) of the riddle at the bottom. Which is true about the cross section shown? I. The cut is parallel to the base. J. The cross section is a triangle. K. Both A and B. L. Neither A nor B. Which of the following could be a possible cross section of a cylinder? L. A circle M. An aval N. A rectangle	Tony wants to cut the square prism shown in order to create a cross section that is a square. Which direction should he make the cut? A. Parallel to the base B. Perpendicular to the base C. At a diagonal angle D. Any of the above would work Deena is going to slice a triangular prism. If she makes the cut perpendicular to the base, what shape will the cross section be? A. A triangle B. A square C. A rectangle
	5. Antoinette sliced the square pyramic a. Describe the direction of the cut ar b. Give an example of another 3D figure to result in the same cross section	O. All of the above Scout wants to cut the square pyramid shown to create a cross section that is a triangle. Which direction should she make the cut? D. Parallel to the base E. Perpendicular to the base F. Both choices above would work O. Neither choice above would work	D. None of the above Which is true about the cross section shown? Q. The cut is parallel to the base. R. The cut is perpendicular to the base. S. Both A and B. T. Neither A nor B.
self-check practice	ing	Nina cut a 3D figure perpendicular to the base and the resulting cross section was a rectangle. Which could NOT have been the 3D figure? F. A rectangular prism G. A triangular prism H. A rectangular pyramid I. A cylinder WHAT IS AN INSECT'S 8 3 6 7 5	A cut parallel to the base of the cube shown would have the same cross section as a cut parallel to the base of which figure? M. A square pyramid N. A triangular pyramid O. A cone P. A cylinder



an 8 day CCSS-aligned unit

CCSS: 7.G.6

streamline your planning process with unit overviews



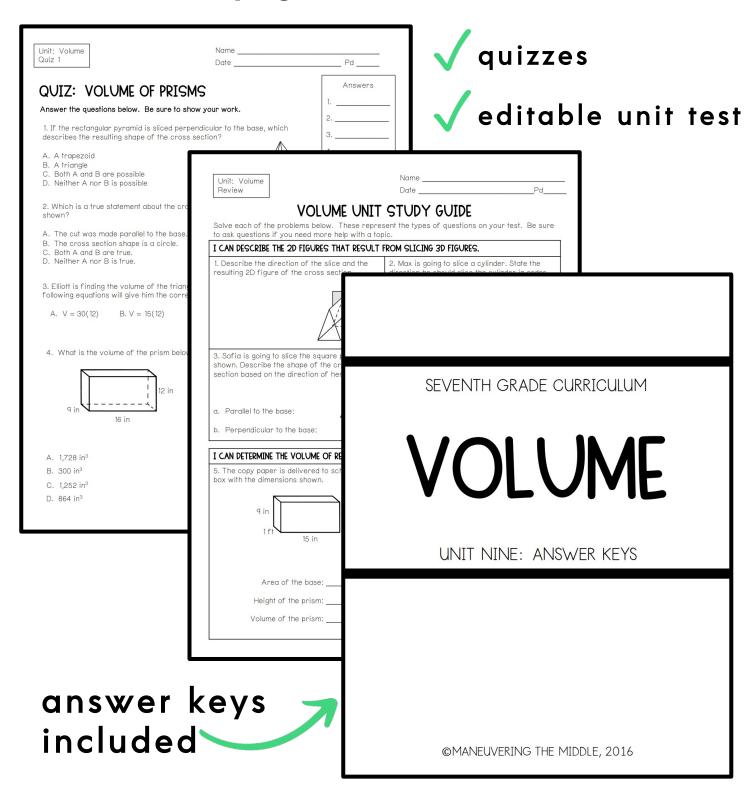
A MANEUVERING THE MIDDLE® RESOURCE



an 8 day CCSS-aligned unit

CCSS: 7.G.6

unit study guide + assessments



A MANEUVERING THE MIDDLE® RESOURCE