

SUBJECT	Mathematics Grade 6 Covering and Surrounding	Mathematics Grade 7 Accentuate the Negative Filling and Wrapping	Mathematics Grade 8 Kaleidoscopes, Hubcaps and Mirrors Samples and Populations
Ideas students are learning	Students will explore areas and perimeters of figures, especially quadrilaterals, triangles, and circles.	Students will extend their knowledge of negative numbers and explore ways to use negative numbers in solving problems.	Students will extend their knowledge of geometric shapes and ways to compare them. Students will explore ways of collecting and analyzing data.
Skills	Students will relate perimeter and area to covering and surrounding a figure. They will recognize situations in which measuring perimeter or area will help answer practical questions.	Students will use informal arithmetic reasoning to solve problems. They will generalize patterns for adding, subtracting, multiplying, and dividing integers.	Students will relate symmetry and congruence. They will explore statistics such as measures of central tendency and variability.
Work and assignments to look for	Student Notebook, Application, Connection, and Extension Problems, Mathematical Reflection for each Investigation	Student Notebook, Application, Connection, and Extension Problems, Mathematical Reflection for each Investigation	Student Notebook, Application, Connection, and Extension Problems, Mathematical Reflection for each Investigation
Questions Parents Can Ask	How do formulas help in solving problems involving perimeter, area, and volume? Why are equations used to describe a relationship? How are the base and height of a triangle used to find the perimeter and area?	Why is it important to understand the relationship between positive or negative numbers and their opposites? How can estimation skills and algorithms reinforce each other? How can a pattern be identified?	How do you know if a pattern has rotation or reflection symmetry? How are geometric relationships represented in the world around us? Why is it important to communicate mathematical thinking?
Special Notes	Students are expected to talk and write about their mathematical thinking. They will be asked to justify their answers. They will also be asked to display their answers in a variety of formats.	Students are expected to talk and write about their mathematical thinking. They will be asked to justify their answers. They will also be asked to display their answers in a variety of formats.	Students are expected to talk and write about their mathematical thinking. They will be asked to justify their answers. They will also be asked to display their answers in a variety of formats.