Mathematics
Eighth Grade
1st Nine Weeks

This academic overview can be used to monitor and support your child's at-home learning progress

Unit 1: The Real Number System

Student Learning Targets
- I can locate the approximation of an irrational number on a number line.
- I can order a set of real numbers.

Questions to Check for Unit Understanding
- What are the steps to locate the approximation of an irrational number on a number line?
- How can I order a set of real numbers that are represented in a variety of ways?

Key Academic Vocabulary
- Irrational numbers: a decimal that goes on infinitely without repeating and cannot be written as a fraction
- Real numbers: any rational and irrational numbers

Unit 2: Pythagorean Theorem

Student Learning Targets
- I can apply the Pythagorean Theorem to solve problems.
- I can use the converse of the Pythagorean Theorem to prove that a given triangle is a right triangle.

Questions to Check for Unit Understanding
- How can I solve for a missing side of a right triangle using the Pythagorean Theorem?
- How can I use the converse of the Pythagorean Theorem to prove that a given triangle is a right triangle?

Unit 3: Slope and Proportional Relationships

Student Learning Targets
- I can find unit rate from a proportional graph.
- I can find slope from a linear relationship.

Questions to Check for Unit Understanding
- What does unit rate represent in a proportional situation?
- How can I calculate slope from multiple linear representations?

Key Academic Vocabulary
- Unit Rate: a comparison of two measurements in which one of the terms has a value of 1
- Slope: steepness of a line