



Mathematics

Seventh Grade

1st Nine Weeks



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

Unit 1: Proportional Relationships

Student Learning Targets

- I can calculate unit rates from rates in mathematical and real-world problems.
- I can represent constant rates of change with multiple representations in mathematical and real-world problems.
- I can solve problems using ratios/rates to find an unknown value.
- I can use ratios to find the percent change of a situation.

Questions to Check for Unit Understanding

- How can you calculate unit rate?
- How can you find constant rates of change from multiple representations?
- How can you use ratios or rates to solve for an unknown value?
- How can ratios help to calculate the percent change of a situation?

Key Academic Vocabulary

- Unit Rate: a comparison of two measurements in which one of the terms has a value of 1.
- Rate of change: how one quantity changes in relation to another quantity.
- Percent change: the relative change between an old value and its new value

Unit 2: Similarity and Scale

Student Learning Targets

- I can solve mathematical and real-world problems involving similar shapes.
- I can solve mathematical and real-world problems involving scale drawings.

Questions to Check for Unit Understanding

- How can we solve for a missing side length when given similar figures?
- How can we use ratios to solve problems involving scale drawings?

Key Academic Vocabulary

- Similar figures: two figures that have congruent corresponding angles and proportional corresponding sides
- Scale: the ratio of the measurement on the drawing compared to the measurement of the original subject