

Prerequisite courses: none

Grade level: 9-12

Course Description

Students will build on their knowledge of fractions and decimals as they explore ratios and rates and build the foundation for slope and linear relationships. They will also explore the concepts of variables and model real-world relationships with expressions and equations.

This course is part of the Exceptional Students Course Suite, designed for high school students working three or more grade levels behind. The Exceptional Students courses are ideal for students whose IEPs allow them to earn credit for below-grade-level coursework.

Course Objectives

Students will meet the following goals in this course.

- Use models to represent relationships between quantities.
- Analyze patterns of equivalent ratios in the multiplication table.
- Find distance given time and speed.
- Use algebraic expressions to model real-world situations involving addition or subtraction.
- Use the order of operations to evaluate algebraic expressions containing more than one operation.
- Use substitution to determine whether a given number is a solution of a one-step equation.
- Analyze the relationship between dependent and independent variables.
- Apply knowledge to real world problems.

Student Expectations

This course requires the same level of commitment from students as a traditional classroom course. Students are expected to spend approximately 5–7 hours per week online on:

- interactive lessons, which include a mixture of instructional videos and tasks.
- assignments, in which they apply and extend learning in each lesson.
- assessments, including quizzes, tests, and cumulative exams.

Communication

Teachers will communicate with students regularly through discussions, emails, chats, and system announcements. Students will also communicate with classmates, either via online tools or face to face, to collaborate, ask and answer questions in peer groups, and develop speaking and listening skills.

Basic Algebra

Grading Policy

Students will be graded on work completed online and work submitted electronically to the teacher. The weighting for each category of graded activity is listed below.

Grading Category	Weight
Assignments	20%
Lesson quizzes	30%
Unit tests	30%
Cumulative exams	20%

Scope and Sequence

When students log on to Imagine Edgenuity, they can view the entire course map—an interactive scope and sequence of all topics under study. The units of study are listed below

Course Units
Unit 1: Understanding Ratios and Rates
Unit 2: Applying Ratios and Rates
Unit 3: Variables and Expressions
Unit 4: Variables and Equations