Prerequisite courses: none   **Grade level:** 9-12

Course Description

Students will review perimeter, area and surface area, and volume—conceptually, procedurally, and as applied to real-world situations.

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.

- Measure length, perimeter, area, and volume using visual models of rectangles and rectangular solids by counting units.
- Find the area of special quadrilaterals.
- Describe the relationship between ordered pairs that differ only in sign.
- Find the value of an unknown dimension of a rectangular prism, given the remaining dimensions and the volume.
- Calculate surface area of rectangular and square pyramids.
- Identify whether a problem requires the calculation of surface area or volume.
- Use a net to calculate the lateral and total surface area of a triangular pyramid.
- 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 Geometry

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: Introduction to Area and Perimeter
Unit 2: Area and Perimeter on the Coordinate Plane
Unit 3: Volume
Unit 4: Surface Area
Unit 5: Application of Volume and Surface Area