



## **Course Description**

Have you ever wondered, “When will I use this in real life?” MS Math 2 Accelerated has great news! There are hundreds of ways that math is used in the real world, and this course is designed to help you think critically as you explore a few of those applications. With hands-on activities and interactive lessons, students will have the opportunity to apply what they learn in relevant ways. Key foundational concepts like exponent laws, scientific notation, and the Pythagorean Theorem will help prepare students for the next level of learning.

Instructional time for **MS Math 2 Accelerated** will emphasize six areas:

1. representing numbers in scientific notation and extending the set of numbers to the system of real numbers, which includes irrational numbers
2. generate equivalent numeric and algebraic expressions including using the Laws of Exponents
3. creating and reasoning about linear relationships, including modeling an association in bivariate data with a linear equation
4. solving linear equations, inequalities, and systems of linear equations
5. developing an understanding of the concept of a function
6. analyzing two-dimensional figures, particularly triangles, using distance, angle, and applying the Pythagorean Theorem

This is a yearlong course consisting of 8 units.

## **Course Overview**

### **Semester 1**

- Numerical Expressions
- Algebraic Equations and Inequalities
- Angles and Triangles
- Proportional Relationships

### **Semester 2**

- Linear Equations
- Statistics and Probability
- Geometry
- Transformations

## Required Course Materials

Please access the list of course materials from the OC Online book ordering system and order your materials as soon as possible. Oftentimes, course materials are on back order and you may experience a delay in receiving them, causing students to fall behind in their online coursework. When ordering used or rented materials, be careful that online access codes are also current.

## Methods of Evaluation

Students will demonstrate mastery through the following formative and summative assessments:

- 40% Assignments
- 10% Participation
- 10% Discussion-Based Assessment
- 20% Final Exam
- 15% Unit Tests
- 5% Math Skills Practice

## Additional Course Information

Detailed information regarding OC Online policies on proctored final exams, grading policy, late/missing assignment policy, weekly live classes, course expectations, and additional school policies can be found on the website.