

## California 8th Grade Math Standards Overview

California's Grade 8 math curriculum, based on the Common Core, covers the following key domains:

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### 1. The Number System (NS)

- Know and apply the properties of integer exponents.
  - Use scientific notation to express very large or small numbers.
  - Perform operations with numbers expressed in scientific notation.
  - Understand irrational numbers and approximate them on the number line.
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### 2. Expressions and Equations (EE)

- Work with radicals and integer exponents.
  - Understand and apply the Pythagorean theorem in various contexts.
  - Solve linear equations, including those with rational number coefficients.
  - Analyze and solve systems of linear equations.
  - Use functions to model relationships between quantities.
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### 3. Functions (F)

- Define, evaluate, and compare functions.
  - Use functions to describe quantitative relationships.
  - Interpret the rate of change in various contexts.
  - Graph functions and understand their properties.
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### 4. Geometry (G)

- Understand congruence and similarity using transformations.
  - Understand and apply the Pythagorean theorem.
  - Solve problems involving volume of cylinders, cones, and spheres.
  - Work with the coordinate plane to solve real-world and mathematical problems.
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## 5. Statistics and Probability (SP)

- Investigate patterns of association in bivariate data.
  - Understand scatter plots and correlation.
  - Make predictions based on data.
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## Learning Goals for 8th Grade

- Master exponents, radicals, and scientific notation.
  - Solve and graph linear equations and systems.
  - Understand and work with functions.
  - Apply geometric concepts including transformations and volume.
  - Analyze bivariate data to make informed predictions.
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