

# Mathematics

Grades  
**9-10**

By the end of the 9<sup>th</sup> through 10<sup>th</sup> Grade Program I can . . .

## Number Sense & Operations



- Proficiently perform mathematical operations with real numbers, vectors and matrices.
- Choose appropriate methods for performing operations — mental or paper-and-pencil calculations for simple cases and technology for more complicated ones.

## Measurement



- Use a variety of measurement scales to describe facts or events and solve problems.

## Patterns & Algebra



- Use the language and methods of algebra to represent, structure and solve problems.
- Represent transformations within a coordinate system using vectors and matrices.

## Data Analysis & Probability



- Collect, analyze and interpret statistical data.
- Design and perform experiments using descriptive statistics to communicate and support predictions and conclusions.
- Analyze functions by investigating rates of change.

## Mathematical Processes



- Communicate mathematical ideas orally and in writing for a specific audience.
- Select and use various types of reasoning and methods of proof.

These are just *some* of the things I can do. For more information about Mathematics Standards, look for the Standards section on the CPS Website: [www.cps-k12.org](http://www.cps-k12.org)

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