

# 7<sup>th</sup> grade Mathematics CORE Syllabus

## **Teacher Information:**

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## **7<sup>th</sup> Grade/Mathematics/CMP:**

### **Algebra**

- Know the order of operations.
- Variables: representations of relationships- tables, graphs, words, and symbols

### **Similarity**

- Know the properties of similarity
- Be able to find and use scale factor between two similar shapes.
- Understand basic similarity transformations and their algebraic rules

### **Ratio, Proportion, & Percent**

- Change between a decimal, percent, and fraction.
- Be able to use proportions, ratios, and percents to make comparisons.
- Proportional reasoning – solving proportions

### **Positive & Negative Numbers**

- Understanding and modeling positive and negative integers and rational numbers.
- Learn the Distributive property
- Use Four-quadrant graphing

### **Linear Relationships**

- Understand the relationship between tables, graphs, and equations.
- Learn about linear relationships, equations, and the slope of a line.

### **Three-Dimensional Measurement**

- Spatial visualization
- Calculate volume and surface area of various solids
- Calculate volume and surface area relationship

### **Probability & Expected Value**

- Find expected value
- Find probabilities of two stage outcomes

## **Describing Variability and Comparing Groups**

- Measures of center
- Variability in data
- Compare distributions of equal and unequal sizes

## **Common Assessments:**

- ✓ Weekly Homework Quizzes
- ✓ Investigation Quizzes
- ✓ Unit Tests

## **Grading Policy:**

*Homework Quizzes:* (40% of the grade)

- Approximately once a week
- Problems will be similar to your homework

*Tests:* (60% of the grade)

- At the end of each book (unit)
- Students who perform poorly on Unit Tests will be encouraged to seek help from the teacher before or after school. Tests may be retaken at students request and only after meeting with teacher for review.

*Homework:*

- Homework does not account for much of students' overall grade. Assigned homework provides opportunities for students to practice new skills that are learned during classroom lessons. It is ultimately up to the students to complete their homework and ask questions for further clarification when needed.

**KMS uses the Connected Mathematics Project Curriculum (CMP). The overarching goal of the CMP middle school mathematics curriculum is:**

*“All students should be able to reason and communicate proficiently in mathematics. They should have knowledge of and skill in the use of the vocabulary, forms of representation, materials, tools, techniques, and intellectual methods of the discipline of mathematics, including the ability to define and solve problems with reason, insight, inventiveness and proficiency.”*

-CMP website