

# Payette School District #371

## McCain Middle School Curricular Map

*Success  
Through  
Education*



### Seventh Grade Math Curriculum

#### Grade 7 Math

##### Ratios and Proportional Relationships

- Analyzes proportional relationships and uses them to solve real-world and mathematical problems.
- Understands unit rates represented as fractions with a denominator of 1.
- Recognizes and represents proportional relationships between quantities.
- Identifies constant of proportionality.
- Represents proportions as equations.
- Analyzes proportional relationships within lines passing through the origin.

##### Number System

- Applies and extends previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Represents addition and subtraction of rational numbers on horizontal and vertical number lines.
- Understands that subtraction of rational numbers is the concept of adding the additive inverse.
- Shows that the distance between two rational numbers on the number line is the absolute value of their difference.
- Applies multiplication and division to positive and negative rational numbers.
- Understands that 0 may not be a divisor.

Understands that rational numbers can be written as fractions, terminating decimals, or repeating decimals.

Applies multiplication and division to positive and negative rational numbers.

Understands that 0 may not be a divisor.

Understands that rational numbers can be written as fractions, terminating decimals, or repeating decimals.

##### Expressions and Equations

Uses properties of operations to generate equivalent expressions.

Solves real-life and mathematical problems using numerical and algebraic expressions and equations.

Solves multi-step problems using whole numbers, fractions, decimals, and percents.

Uses variables to represent quantities in simple equations and inequalities.

##### Geometry

Draws, constructs and describes geometrical figures and describes the relationships between them.

Solves problems involving scale drawings of geometric figures

Solves real-life and mathematical problems involving angle measure, area, surface area, and volume.

Uses facts about supplementary, complementary, adjacent and adjacent angles to solve problems

##### Statistics and Probability

Uses random sampling to draw inferences about a population.

Draws informal comparative inferences about two populations.

Investigates chance processes and develops, uses and evaluates probability models.

Understands that probability is a number between 0 and 1 and can be represented as a fraction, decimal, or percent.