Wertheimer Middle School

6th Grade Math Scope & Sequence

First Six Weeks

Comparing and Ordering Rational Numbers

- Order numbers from real world contexts
- Classify whole numbers, positive/negative integers (whole numbers), and rational numbers using a visual representation
- Identify a number, its opposite, and its absolute value

Integer Operations and Integer Models

- Add, subtract, multiply and divide positive/negative integers fluently
- Represent integer operations with models and algorithms

Second Six Weeks

Rational Number Operations

- Multiply and divide positive rational numbers fluently
- Extend representations for division to include fraction notation such as a/b represents the same number as $a \div b$

Third Six Weeks

Rates and Ratios

- Generate equivalent forms of fractions, decimals and percents
- Ratios as multiplicative comparisons of two quantities
- Rates as the comparison by division of two quantities having different attributes, including rates as quotients
- Represent math problems with ratios and rates using scale factors, tables, graphs and proportions

Fourth Six Weeks

Algebraic Properties, Algebraic Expressions, Order of Operations

- Equivalent numerical expressions using order of operations, including exponents and prime factorization

Algebraic Equations and Inequalities

- Model and solve one variable, one-step equations and inequalities
- Distinguish between expressions and equations verbally, numerically, and algebraically
- Write and represent solutions for one-variable, one-step equations and inequalities on number lines

Fifth Six Weeks

Multiple Representations

- Represent situations using descriptions, tables, graphs, and equations in the form of $y=kx$ or $y=x+b$

Geometry with Algebraic Equations

- Solve problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms
- Triangles and their properties including the sum of angles, relationship between lengths of sides and measures of angles

Sixth Six Weeks

Personal Financial Literacy

- Features and costs of a checking account and debit cards
- Balance a check register: deposits, withdrawals, and transfers
- Credit history and reports
- Various methods to pay for college: savings, grants, scholarships, student loans, and work-study
- Compare annual salary of various occupations and their levels of education or vocational training