

RINGWOOD PUBLIC SCHOOLS

WHAT EVERY STUDENT SHOULD KNOW BY THE END OF SIXTH GRADE – MATH

Number Sense, Numeration, and Numerical Operations

- Read, write, compare, and order positive integers.
- Find multiples, common multiples, and least common multiples of numbers.
- Find factors, common factors, and greatest common factors of numbers.
- Identify prime and composite numbers, and write the prime factorization of composite numbers.
- Identify equivalent forms of whole number percents and their fractions and decimals.
- Compare and order fractions, decimals, and percents.
- Add, subtract, multiply, and divide fractions and mixed numbers.
- Multiply and divide decimals.
- Use estimation and mental math to solve problems.
- Analyze problem situations and solve multi-step problems.

Spatial Sense, Measurement, and Geometry

- Identify different types of lines and angles.
- Draw congruent segments and angles.
- Identify congruent figures and name their corresponding parts.
- Understand the concepts of symmetry and reflections.
- Convert units of measure within the customary measurement system.
- Calculate the circumference of circles.
- Calculate area and perimeter of basic polygons (square, triangle, rectangles).
- Use measurement concepts involving length, weight, time, circumference, and area to solve problems.

Patterns, Relationships, Functions

- Given a group of ordered pairs, identify the rule used to generate them.
- Locate points in the first quadrant of a coordinate plane using ordered pairs.
- Identify and extend numerical and geometric patterns.
- Use patterns to make predictions and solve problems.
- Understand area relationships between parts of tangrams.
- Use tangrams for problem solving.
- Solve input/output functions.

Data, Probability, and Statistics

- Organize, display, interpret, and analyze data using tables and graphs (bar, line, circle).
- Find mean, median, mode, and range.
- Intro probability using dice and spinners; predicting and determining outcomes.