

Grade 6 Math Curriculum Map

A STATISTICS & PROBABILITY

Data Analysis

Collect, display and analyze data to solve problems.

1 - Create, label and interpret line graphs to draw conclusions.

2 - Select, justify and use appropriate methods of collecting data.

3 - Graph collected data, and analyze the graph to solve problems.

4 - Demonstrate an understanding of probability by: a) identifying all possible outcomes of a probability experiment as well as the theoretical & experimental probability of various results.

Chance & Uncertainty

Use experimental or theoretical probabilities to represent and solve problems involving uncertainty.

1 - Understand place value, from less than one thousandth to more than one million.

2 - Solve problems involving whole numbers and decimal numbers.

3 - Demonstrate an understanding of factors and multiples.

4 - Relate improper fractions to mixed numbers and mixed numbers to improper fractions.

5 - Demonstrate an understanding of ratios and percents, concretely, pictorially and symbolically.

6 - Demonstrate an understanding of integers, concretely, pictorially and symbolically.

7 - Demonstrate an understanding of multiplication and division of decimals.

B NUMBER

Develop number sense.

1 - Represent and describe patterns and relationships, using graphs and tables.

C PATTERNS & RELATIONS

Use patterns to describe the world and to solve problems.

2 - Demonstrate an understanding of the relationships within tables of values to solve problems.

3 - Represent generalizations arising from number relationships, using equations with letter variables.

4 - Express a given problem as an equation in which a letter variable is used to represent an unknown number.

5 - Demonstrate and explain the meaning of preservation of equality, concretely and pictorially.

Variables & Equations

Represent algebraic expressions in multiple ways.

9 - Perform and describe single transformations of a 2-D shape using a Cartesian plane.

8 - Identify and plot points in the first quadrant of a Cartesian plane, using whole number ordered pairs.

D SHAPE & SPACE

Transformations

Describe and analyze position and motion of objects and shapes.

6 - Perform a combination of translations, rotations and/or reflections on a single 2-D shape, then draw and describe the image.

7 - Perform a combination of successive transformations of 2-D shapes to create a design, and identify and describe the transformations.

Measurement

Use direct and indirect measurement to solve problems.

1 - Demonstrate an understanding of angles by drawing, labelling, identifying and classifying angles using degrees and reference angles.

2 - Demonstrate that the sum of interior angles is 180° in a triangle and 360° in a quadrilateral.

3 - Develop and apply a formula for determining perimeter, area and volume of polygons.

4 - Construct and compare types of triangles, including and manipulating them in different orientations.

5 - Describe and compare the sides and angles of polygons

3D Objects & 2D Shapes

Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them.