

<h2>Number</h2>
General Outcome <i>Develop number sense.</i>
6.N.1. Demonstrate an understanding of place value for numbers <ul style="list-style-type: none"> • greater than one million • less than one thousandth. [C, CN, R, T]
6.N.2. Solve problems involving large numbers, using technology. [ME, PS, T]
6.N.3. Demonstrate an understanding of factors and multiples by <ul style="list-style-type: none"> • determining multiples and factors of numbers less than 100 • identifying prime and composite numbers • solving problems involving factors or multiples. [PS, R, V]
6.N.4. Relate improper fractions to mixed numbers. [CN, ME, R, V]
6.N.5. Demonstrate an understanding of ratio, concretely, pictorially, and symbolically. [C, CN, PS, R, V]
6.N.6. Demonstrate an understanding of percent (limited to whole numbers) concretely, pictorially, and symbolically. [C, CN, PS, R, V]
6.N.7. Demonstrate an understanding of integers, concretely, pictorially and symbolically. [C, CN, R, V]
6.N.8. Demonstrate an understanding of multiplication and division of decimals involving <ul style="list-style-type: none"> • 1-digit whole-number multipliers • 1-digit natural number divisors • Multipliers and divisors that are multiples of 10. [C, CN, ME, PS, R, V]
6.N.9. Explain and apply the order of operations, excluding exponents (limited to whole numbers). [CN, ME, PS, T]

<h2>Statistics and Probability</h2>
General Outcome <i>Collect, display, and analyze data to solve problems.</i>
6.SP.1. Create, label, and interpret line graphs to draw conclusions. [C, CN, PS, R, V]
6.SP.2. Select, justify, and use appropriate methods of collecting data, including <ul style="list-style-type: none"> • questionnaires • experiments • databases • electronic media. [C, PS, T]
6.SP.3. Graph collected data and analyze the graph to solve problems. [C, CN, PS]
General Outcome <i>Use experimental or theoretical probabilities to represent and solve problems involving uncertainty.</i>
6.SP.4. Demonstrate an understanding of probability by <ul style="list-style-type: none"> • identifying all possible outcomes of a probability experiment • differentiating between experimental and theoretical probability • determining the theoretical probability of outcomes in a probability experiment • determining the experimental probability of outcomes in a probability experiment • comparing experimental results with the theoretical probability for an experiment. [C, ME, PS, T]

<h2>Shape and Space</h2>
General Outcome <i>Use direct or indirect measurement to solve problems.</i>
6.SS.1. Demonstrate an understanding of angles by <ul style="list-style-type: none"> • identifying examples of angles in the environment • classifying angles according to their measure • estimating the measure of angles using 45°, 90°, and 180° as reference angles • determining angle measures in degrees • drawing and labelling angles when the measure is specified. [C, CN, ME, V]
6.SS.2. Demonstrate that the sum of interior angles is <ul style="list-style-type: none"> • 180° in a triangle • 360° in a quadrilateral. [C, R]
6.SS.3. Develop and apply a formula for determining the <ul style="list-style-type: none"> • perimeter of polygons • area of rectangles • volume of right rectangular prisms. [C, CN, PS, R, V]
General Outcome <i>Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them.</i>
6.SS.4. Construct, and compare triangles, including <ul style="list-style-type: none"> • scalene • isosceles • equilateral • right • obtuse • acute in different orientations. [C, PS, R, V]
6.SS.5. Describe and compare the sides and angles of regular and irregular polygons. [C, PS, R, V]

<h2>Shape and Space (cont.)</h2>
General Outcome <i>Describe and analyze position and motion of objects and shapes.</i>
6.SS.6. Perform a combination of transformations (translations, rotations, or reflections) on a single 2-D shape, and draw and describe the image. [C, CN, PS, T, V]
6.SS.7. Perform a combination of successive transformations of 2-D shapes to create a design, and identify and describe the transformations. [C, CN, T, V]
6.SS.8. Identify and plot points in the first quadrant of a Cartesian plane using whole number ordered pairs. [C, CN, V]
6.SS.9. Perform and describe single transformations of a 2-D shape in the first quadrant of a Cartesian plane (limited to whole number vertices). [C, CN, PS, T, V]

<h2>Patterns and Relations</h2>
General Outcome <i>Use patterns to describe the world and solve problems.</i>
6.PR.1. Demonstrate an understanding of the relationships within tables of values to solve problems. [C, CN, PS, R]
6.PR.2. Represent and describe patterns and relationships using graphs and tables. [C, CN, ME, PS, R, V]
General Outcome <i>Represent algebraic expressions in multiple ways.</i>
6.PR.3. Represent generalizations arising from number relationships using equations with letter variables. [C, CN, PS, R, V]
6.PR.4. Demonstrate and explain the meaning of preservation of equality concretely, pictorially, and symbolically. [C, CN, PS, R, V]

Processes:

C – Communication
PS – Problem Solving
V - Visualization

CN – Connections
R – Reasoning

ME – Mental Mathematics and Estimation
T – Technology