

MATHEMATICS 6–9 CURRICULUM UNIT DEVELOPMENT

Strands	Grade 6	Grade 7	Grade 8	Grade 9
<p>Problem Solving Demonstrate confidence, desire and ability to solve a variety of mathematically-related problems</p>	<ul style="list-style-type: none"> • Understand • Plan and Execute • Reflect 	<ul style="list-style-type: none"> • Understand • Plan and Execute • Reflect 	<ul style="list-style-type: none"> • Understand • Plan and Execute • Reflect 	<ul style="list-style-type: none"> • Understand • Plan and Execute • Reflect
<p>Data Management Demonstrate knowledge and understanding of why, when and how to collect, organize and interpret numerical data</p>	<ul style="list-style-type: none"> • Collect • Organize and display • Summarize and interpret • Probability 	<ul style="list-style-type: none"> • Collect • Organize and display • Summarize and interpret • Probability 	<ul style="list-style-type: none"> • Collect • Organize and display • Summarize and interpret • Probability 	<ul style="list-style-type: none"> • Collect • Organize and display • Summarize and interpret • Probability
<p>Numbers and Operations Demonstrate an understanding of numbers, number patterns, counting, place value, estimation and the basic operations</p>	<ul style="list-style-type: none"> • Place Value • Estimation: A Mental Calculation • Whole Numbers • Integers • Rational Numbers <ul style="list-style-type: none"> ◦ Fractions ◦ Decimal • Calculator Skills 	<ul style="list-style-type: none"> • Place Value • Estimation: A Mental Calculation • Whole Numbers • Integers • Rational Numbers <ul style="list-style-type: none"> ◦ Fractions ◦ Decimal • Calculator Skills • Exponents • Order of Operations • Square Root 	<ul style="list-style-type: none"> • Place Value • Estimation: A Mental Calculation • Whole Numbers • Integers • Rational Numbers <ul style="list-style-type: none"> ◦ Fractions ◦ Decimal • Calculator Skills • Exponents • Order of Operations • Square Root 	<ul style="list-style-type: none"> • Place Value • Estimation: A Mental Calculation • Whole Numbers • Integers • Rational Numbers <ul style="list-style-type: none"> ◦ Fractions ◦ Negative Rational Numbers ◦ Decimal • Calculator Skills • Exponents • Order of Operations • Square Root

<p>Geometry Develop a sense of spatial awareness and recognize relationships between geometry and the environment through active involvement in working with two and three dimensional shapes</p>	<ul style="list-style-type: none"> · Angles, Lines, Points, Planes · Polygons – Planes (2 dimensional) · Space Geometry – Solids (3 dimensional) 	<ul style="list-style-type: none"> · Angles, Lines, Points, Planes · Polygons – Planes (2 dimensional) · Space Geometry – Solids (3 dimensional) 	<ul style="list-style-type: none"> · Angles, Lines, Points, Planes · Polygons – Planes (2 dimensional) · Space Geometry – Solids (3 dimensional) 	<ul style="list-style-type: none"> · Plane · Solid Volume · Area (surface) · Analytic Geometry
<p>Measurement Acquire an ability to measure and recognize applications that measurement has with other areas of study and real life</p>	<ul style="list-style-type: none"> · Length · Area · Volume · Other: Capacity, Mass, Time 	<ul style="list-style-type: none"> · Metric Chart · Area · Volume · Capacity, Mass, Time 	<ul style="list-style-type: none"> · Length · Area · Volume · Capacity, Mass, Time 	<ul style="list-style-type: none"> · Length · Area · Volume · Capacity, Mass, Time
<p>Ratio and Proportion</p>	<ul style="list-style-type: none"> · Ratio · Percent 	<ul style="list-style-type: none"> · Ratio · Percent 	<ul style="list-style-type: none"> · Ratio · Percent · Proportion 	<ul style="list-style-type: none"> · Ratio · Percent · Proportion
<p>Algebra</p>	<ul style="list-style-type: none"> · Variables 	<ul style="list-style-type: none"> · Variables 	<ul style="list-style-type: none"> · Variables 	<ul style="list-style-type: none"> · Variables · Word Problems · Equations and Formulas · Algebraic Expressions · Functions