Grade 6 Math

Curricular Competencies

		Reasoning and Analyzing			Understanding and Solving			Communicating & Representing				Connecting and Reflecting			
Big Ideas	*Numbers can be represented in many forms and reflect different relationships. *Numeracy helps us to see patterns, communicate ideas, and solve problems. *Patterns allow us to see relationships and develop generalizations. *Geometry and measurement empower us to make meaning of the world. *We can apply mathematics to inquiry questions and use it to communicate information and data. *Data enable us to draw conclusions and make predictions in an unstable world.	Inductively and deductively reason and use logic to explore, make connections, predict, analyze, generalize, and make conclusions	Develop and apply mental math strategies and estimate amounts and outcomes	Use tools or technology to explore and create patterns and relationships, and test conjectures	Implement multiple strategies to solve problems in both abstract and real-life situations using different cultural perspectives	Develop, construct, and apply mathematical understanding through play, inquiry, and problem solving	Engage in problem-solving experiences that are connected to place, story, and cultural practices relevant to the local community	Use mathematical vocabulary and language to contribute to mathematical discussions	Communicate in a variety of ways to explain, clarify, and justify mathematical ideas	Develop mathematical understanding through concrete, pictorial, and symbolic representations	Use technology appropriately to record, communicate, and represent thinking	Visualize and describe mathematical concepts	Explore, apply, and connect concepts to each other, to other disciplines, and to the real world	Use mathematical arguments to support personal choices and anticipate consequences	Apply cultural perspectives of First Peoples to the concepts of locating, measuring, and numbering
Content	whole number percents and percentage discounts														
	improper fractions & mixed numbers (ordering whole & fractional numbers, proper & improper fractions)														
	small to large numbers (thousandths to billions)														
	factors and multiples, greatest common factor and least common multiple														
	order of operations with whole numbers														
	multiplication and division of decimals														
	multiplication and division facts to 100 (developing computational fluency)														
	increasing and decreasing patterns, using expressions, tables, and graphs														
	functional relationships														
	one-step equations with whole-number coefficients and solutions														
	perimeter of complex shapes														
	area of triangles, parallelograms, and trapezoids														
	angle measurement and classification														
	measurement units and referents for volume and capacity														
	volume of rectangular prisms														
	relation of capacity to volume														
	triangles and pyramids														
	combinations of transformations, including points in the first quadrant														
	line graphs														
	single-outcome probability, both theoretical and experimental														
	financial literacy - simple budgeting and consumer math														