Grade 4 Math

Curricular Competencies

		Reasoning and Analyzing			Understanding and Solving			Communicating and Representing			Connecting and Reflecting			
Big Ideas	*Number represents and describes quantity: Parts of wholes can be represented by fractions and decimals. *Developing computational fluency comes from a strong sense of number: Patterns and relations within multiplication and division develop multiplicative thinking. *We use patterns to represent identified regularities and to form generalizations: The regular change in patterns can be represented using tools and tables. *We can describe, measure, and compare spatial relationships: Polygons are closed shapes with similar attributes. *Analyzing data and chance help us to compare and interpret: Probability experiments develop an understanding of chance.	Estimate reasonably	Develop mental math strategies and abilities to make sense of quantities	Use reasoning and logic to explore and make connections	Use multiple strategies to engage in problem solving (e.g., visual, oral, role-play, experimental, written, symbolic)	Develop, construct, and apply mathematical understanding through role-play, inquiry, and problem solving	Engage in problem-solving experiences that are connected to place, story, and cultural practices relevant to the local community	Communicate in many ways (concretely, pictorially, symbolically, and by using spoken or written language to express, describe, explain, and apply mathematical ideas)	Describe, create, and interpret relationships through concrete, pictorial, and symbolic representations	Use technology appropriately to explore mathematics, solve problems, record, communicate, and represent thinking	Visualize and describe mathematical concepts	Connect mathematical concepts to each other and make mathematical connections to the real world (e.g., in daily activities, local and traditional practices, the environment, popular media and news events, cross-curricular integration)	Share and reflect upon mathematical thinking	Draw upon local First Peoples knowledge and/or expertise of local Elders to make connections to mathematical topics and concepts
Content	number concepts to 10 000													
	decimals to hundredths													
	ordering and comparing fractions													
	addition and subtraction to 10 000													
	multiplication and division of two- or three-digit numbers by one-digit numbers													
	addition and subtraction of decimals to hundredths													
	addition and subtraction facts to 20 (developing computational fluency)													
	multiplication and division facts to 100 (introductory computational strategies)													
	increasing and decreasing patterns, using tables and charts													
	algebraic relationships among quantities													
	one-step equations with an unknown number using all operations													
	how to tell time with analog and digital clocks, using 12- and 24-hour clocks													
	regular and irregular polygons													
	perimeter of regular and irregular shapes													
	line symmetry													
	one-to-one correspondence and many-to-one correspondence, using bar graphs and pictographs													
	probability experiments													
	financial literacy - monetary calculations, making change up to 100 dollars & financial decisions													