Grade 4 Math

Curricular Competencies

		Reasoning and Analyzing					Understanding and Solving				Communicating and Representing				Connecting and Reflecting		
Big Ideas	*Fractions and decimals are types of numbers that can represent quantities. *Development of computational fluency and multiplicative thinking requires analysis of patterns and relations in multiplication and division. *Regular changes in patterns can be identified and represented using tools and tables. *Polygons are closed shapes with similar attributes that can be described, measured, and compared. *Analyzing and interpreting experiments in data probability develops an understanding of chance.	Use reasoning to explore and make connections	Estimate reasonably	Develop mental math strategies and abilities to make sense of quantities	Use technology to explore mathematics	Model mathematics in contextualized experiences	Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving	Visualize to explore mathematical concepts	Develop and use multiple strategies to engage in problem solving	Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures	Communicate mathematical thinking in many ways	Use mathematical vocabulary and language to contribute to mathematical discussions	Explain and justify mathematical ideas and decisions	Represent mathematical ideas in concrete, pictorial, and symbolic forms	Reflect on mathematical thinking	Connect mathematical concepts to each other and to other areas and personal interests	Incorporate First Peoples worldviews and perspectives to make connections to mathematical 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																