

Grade 7 Math		Curricular Competencies																	
Big Ideas *Decimals, fractions, and percents are used to represent and describe parts and wholes of numbers. *Computational fluency and flexibility with numbers extend to operations with integers and decimals. *Linear relations can be represented in many connected ways to identify regularities and make generalizations. *The constant ratio between the circumference and diameter of circles can be used to describe, measure, and compare spatial relationships. *Data from circle graphs can be used to illustrate proportion and to compare and interpret.		Reasoning and Analyzing					Understanding and Solving				Communicating & Representing			Connecting and Reflecting					
		Use logic and patterns to solve puzzles and play games	Use reasoning and logic to explore, analyze, and apply mathematical ideas	Estimate reasonably	Demonstrate and apply mental math strategies	Use tools or technology to explore and create patterns and relationships, and test conjectures	Model mathematics in contextualized experiences	Apply multiple strategies to solve problems in both abstract and contextualized situations	Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving	Visualize to explore mathematical concepts	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	Use mathematical vocabulary and language to contribute to mathematical discussions	Explain and justify mathematical ideas and decisions	Communicate mathematical thinking in many ways	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	Use mathematical arguments to support personal choices	Incorporate First Peoples worldviews and perspectives to make connections to mathematical concepts
Content	multiplication and division facts to 100 (extending computational fluency)																		
	operations with integers(addition, subtraction, multiplication, division, and order of operations)																		
	operations with decimals(addition, subtraction, multiplication, division, and order of operations)																		
	relationship between decimals, fractions, and percents																		
	discrete linear relations, using expressions, tables, and graphs																		
	two-step equations with whole number coefficients, constants, and solutions																		
	circumference and area of circles																		
	volume of rectangular prisms and cylinders																		
	Cartesian coordinates and graphing																		
	combinations of transformations																		
	circle graphs																		
	experimental probability with two independent events																		
financial literacy-financial percentage calcs (sales tax, tips, bill splitting, consignment)																			

