Grade 9 Math		Curricular Competencies																	
		Reasoning and Analyzing					Understanding and Solving				Communicating and Representing				Connecting and Reflecting				
Biq Ideas	*The principles and processes underlying operations with numbers apply equally to algebraic situations and can be described and analyzed. *Computational fluency and flexibility with numbers extend to operations with rational numbers. *Continuous linear relationships can be identified and represented in many connected ways to identify regularities and make generalizations. *Similar shapes have proportional relationships that can be described, measured, and compared. *Analyzing the validity, reliability, and representation of data enables us to compare and interpret.	Jse 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	xplain 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	Jse mathematical arguments to support personal choices	Incorporate First Peoples worldviews and perspectives to make connections to mathematical concepts
Content	numerical and spatial reasoning, logic, and patterns to solve puzzles and games operations with polynomials, of degree less than or equal to two types of income (e.g., wages, salary, piece work, commission) operations with rational numbers (addition, subtraction, multiplication, division, and order of operations) rational numbers and order of operations two-variable linear relations, using graphing, interpolation, and extrapolation multi-step one-variable linear equations, including distribution and rational coefficients, constants, and solutions spatial proportional reasoning (e.g., scale diagrams, similar triangles, linear unit conversions) probability and statistics in society (e.g., sampling techniques, misleading stats) financial literacy - simple budgets and transactions (e.g., banking, interest, savings, planned purchases)							< c			⊒ & Z	□ ⇒					Tr. Co		lr tt