

Algebra and Linear Relations – Math Grade 7

<i>What I want students to know, do and understand?</i>			
Concept(s)	Relationship, generalization (predicting), representation, connection, cause and effect, change, system		
	Big Idea	Curricular Competencies	Content
	Linear relations can be represented in many connected ways to identify regularities and make generalizations.	<p><i>REASONING AND ANALYZING</i></p> <ul style="list-style-type: none"> • Use reasoning and logic to explore, analyze, and apply mathematical ideas • Demonstrate and apply mental math strategies • Use tools/technology to explore and create patterns and relationships, and test conjectures • Model mathematics in contextualized experiences <p><i>UNDERSTANDING AND SOLVING</i></p> <ul style="list-style-type: none"> • Develop, demonstrate and apply mathematical understanding through play, inquiry and problem solving • Visualize to explore mathematical concepts <p><i>COMMUNICATING AND REPRESENTING</i></p> <ul style="list-style-type: none"> • Use mathematical vocabulary and language to contribute to mathematical discussions • Explain and justify mathematical ideas and decisions • Communicate mathematical thinking in many ways <p><i>CONNECTING AND REFLECTING</i></p> <ul style="list-style-type: none"> • Reflect on mathematical thinking • Connect mathematical concepts to each other and other areas of personal interest • Incorporate First Peoples worldviews and perspectives 	<ul style="list-style-type: none"> • Discrete linear relations, using expressions, tables and graphs • Two step equations with whole number coefficients, constants and solutions • Multiplication and division facts to 100 • Operations with integers (addition, subtraction, multiplication, division, order of operations)
<i>How will I know my students have it?</i>			
Summative Assessment			
	<i>Multiplication and division facts to 100 (extending computational fluency)</i>	<i>Algebraic Equations/Expressions</i>	<i>Linear Relations</i>
	On-going, formative assessment; imbed into other units	Unit Test	Unit Test

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