

Scope and Sequence

Subject/Title of Unit	Grade	6 Weeks	Estimated Time Frame (# of days)
Math Unit 5: Algebraic Thinking: Linear Functions	8 th grade	5 th 6 weeks	38 days
Objectives		Examples/Specifications: (such as=optional; including=testable)	
<p>(8.16) Underlying processes and mathematical tools. The student uses logical reasoning to make conjectures and verify conclusions. The student is expected to:</p> <p>(A) make conjectures from patterns or sets of examples and nonexamples; and</p> <p>(B) validate his/her conclusions using mathematical properties and relationships.</p> <p>(8.5) Patterns, relationships, and algebraic thinking. The student uses graphs, tables, and algebraic representations to make predictions and solve problems. The student is expected to:</p> <p>(A) predict, find, and justify solutions to application problems using appropriate tables, graphs, and algebraic equations; and</p> <p>(B) find and evaluate an algebraic expression to determine any term in an arithmetic sequence (with a constant rate of change).</p> <p>(8.4) Patterns, relationships, and algebraic thinking. The student makes connections among various representations of a numerical relationship. The student is expected to generate a different representation of data given another representation of data (such as a table, graph, equation, or verbal description).</p> <p>(8.15) Underlying processes and mathematical tools. The student communicates about Grade 8 mathematics through informal and mathematical language, representations, and models. The student is expected to:</p> <p>(A) communicate mathematical ideas using language, efficient tools, appropriate units, and graphical, numerical, physical, or algebraic mathematical models; and</p> <p>(8.14) Underlying processes and mathematical tools. The student applies Grade 8 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school.</p>		<p>Use the distributive property to simplify algebraic expressions</p> <p>Solve 2-step problems</p> <p>Solve equations with variables on both sides</p> <p>Write 2-step problems</p> <p>Solve equations with variables on both sides using algebra tiles</p>	

