

5th Grade			
Functions and Algebra			
GLE	Key Content & Skills	Common Benchmark Assessments	
M:F&A:5:1 Identifies and extends to specific cases a variety of patterns (linear and nonlinear) represented in models, tables, sequences, or <u>in problem situations</u> ; and writes a rule in words or ^{sc} symbols <u>for finding specific cases of a linear relationship</u> .	<p>Types of patterns to emphasize:</p> <ul style="list-style-type: none"> - Linear and nonlinear <p>How the pattern is represented:</p> <ul style="list-style-type: none"> - Models, - Tables - Sequences - Problem situations <p>How to generalize and model patterns:</p> <ul style="list-style-type: none"> - Writes a rule in words or symbols to find a specific case of a linear relationship <p>How to identify (recognize) and extend patterns:</p> <ul style="list-style-type: none"> -Extend pattern to the next one, two, or three elements -Find missing element 	enVision 6-1 6-2 6-3	GLE Support Items #119 #120
M:F&A:5:3 Demonstrates conceptual understanding of algebraic expressions by using letters to represent unknown quantities to write <u>linear algebraic expressions</u> involving <u>any two</u> of the four operations; or by evaluating <u>linear algebraic expressions</u> using whole numbers.	<p>Write algebraic expressions:</p> <ul style="list-style-type: none"> - Use letters to represent unknown quantities to write linear algebraic expressions involving any two of the four operations -Uses letters to represent unknown quantities to write linear algebraic expressions involving any <u>one</u> of the four operations. <p>Evaluate algebraic expressions:</p> <ul style="list-style-type: none"> - Evaluate any linear algebraic expressions using whole numbers -Evaluate simple linear expressions in one variable using whole numbers 	enVision 15-4 15-1 15-2 15-3	GLE Support Items #121
M:F&A:5:4 Demonstrates conceptual understanding of equality by showing equivalence between two expressions using models or different representations of the expressions (expressions consistent with the parameters of <u>M:F&A:5-3</u>), by solving one-step linear equations of the form $ax = c$, $x \pm b = c$, or $x/a = c$, where <u>a, b, and c are whole numbers with $a \neq 0$</u> ; or by <u>determining which values of a replacement set make the equation (multi-step of the form $ax \pm b = c$ where a, b, and c are whole numbers with $a \neq 0$) a true statement</u> (e.g., $2x + 3 = 11$, $\{x: x = 2, 3, 4, 5\}$).	<p>Find the solution set:</p> <ul style="list-style-type: none"> - Solve one-step linear equations of the form $ax = c$, $x \pm b = c$, or $x/a = c$ where a, b, and c are whole numbers with $a \neq 0$ -Determine which values of the replacement set make the equation <u>(multi-step of the form $ax \pm b = c$ where a, b, and c are whole numbers with $a \neq 0$)</u> a true statement (e.g. $2x + 3 = 11$, $\{x = 2, 3, 4, 5\}$) <p>Determine the equivalence of two expressions:</p> <ul style="list-style-type: none"> - Show equivalence between two expressions using models or different representations of the expressions 	enVision 6-3	GLE Support Items #122

Highlighted Boxes are Power Standards

Bolded Boxes are Standards tested on NECAP

Italics indicate Teaching Component from prior grade; should continue to be reinforced.