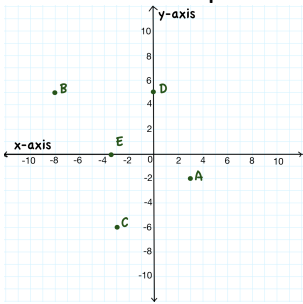
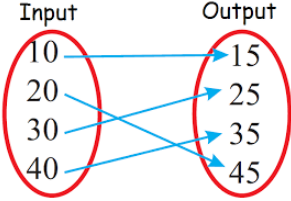
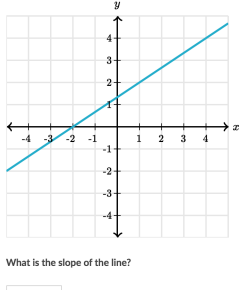
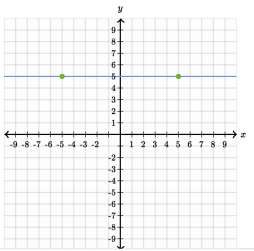


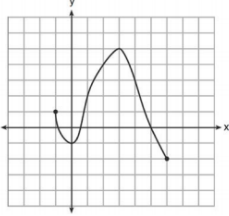
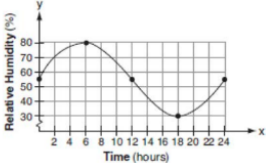


Algebra 1 Essential Skills for the Scholar

Standard	Computation Sample	Constructive Response Sample	Resources & How To Videos
<p>-Plotting and reading on a coordinate plane</p>	<p>Plot the follow points and label</p> <p>a) (5,2) b) (-2, 4) c) (3, 0) d) (0, -2)</p>	<p>Write the coordinates that represent each letter and determine the quadrants</p> 	<p>Khan Academy (set up a classroom)</p> <p>Delta Math Desmo Math antics Mathbitsnotebook You tube video specific to skill https://www.youtube.com/watch?v=9Uc62CuQjc4</p>
<p>-Classifications of numbers</p>	<p>Square root on 12 falls into which classification of number?</p>	<p>Is the square root of 49 rational or irrational, explain why?</p>	<p>Khan Academy (set up a classroom)</p> <p>Delta Math Desmo Math antics Mathbitsnotebook You tube video specific to skill https://www.youtube.com/watch?v=vbPUS-0Wbv4</p>
<p>-Translating expressions (word problems) between verbal and algebraic forms</p>	<p>Jill sold half of her comic books and then bought sixteen more. She now has 36. With how many did she begin?</p> <p>a) $X = 20$ b) $X = 40$ c) $X = 10$ d) $X = 25$</p>	<p>You bought a magazine for \$5 and four erasers. You spent a total of \$25. How much did each eraser cost?</p>	<p>Khan Academy Delta Math Desmo Math antics Mathbitsnotebook You tube video specific to skill https://www.youtube.com/watch?v=KmuWR_LriQU</p>

Standard	Computation Sample	Constructive Response Sample	Resources & How To Videos
-Translating inequalities (word problems) between verbal and algebraic forms	<p>Which ordered pair is in the solution set of the inequality</p> <p>A) (1,12) B) (10,2) C) (1,8) D) (-1,6)</p>	<p>James' salary is larger than 6 times susan's salary with an additional \$200 dollars added on. Write the inequality that represents James' earnings</p>	<p>Khan Academy (set up a classroom) Delta Math Desmo Math antics Mathbitsnotebook You tube video specific to skill</p>
-Properties of numbers	<p>Which property of numbers was used in the following situation?</p> <p>$5(2x - 4) = 10x - 20$</p>	<p>How would using the commutative property of multiplication aid in solving the following problem?</p> <p>$125 \times 37 \times 4$</p>	<p>Khan Academy Delta Math Desmo Math antics Mathbitsnotebook You tube video specific to skill https://www.youtube.com/watch?v=-v6zc3JlsoY Distributive Property https://www.youtube.com/watch?v=v-6MShC82ow</p>
--solve two step equations with all rational numbers (fractions and decimals)	<p>$4x - 3 = -23$</p> <p>a) $X = -5$ b) $X = 5$ c) $X = -6.5$ d) $X = 6.5$</p>	<p>$x/4 - 10 = -6$</p>	<p>Khan Academy Delta Math Desmo Math antics Mathbitsnotebook You tube video specific to skill Sequence Videos 1-Step (order of operations) https://www.youtube.com/watch?v=l3XzepN03KQ&list=PLn2xrg_8MPfVFA1XMNpZc4P1FvqhByWQt&index=2 2-Step https://www.youtube.com/watch?v=LDliYKYvvdA</p>
-solve two step inequalities with all rational numbers (fractions and decimals)	<p>$\frac{1 + m}{9} \geq 1$</p> <p>a) $m \geq 9$ b) $m \geq 8$ c) $m \leq 9$ d) $m \leq 8$</p>	<p>$-2 + \frac{x}{2} > 6$</p>	<p>Khan Academy Delta Math Desmo Math antics Mathbitsnotebook You tube video specific to skill Adding and Subtracting https://www.youtube.com/watch?v=smX2wklUPvQ Multiplication and Division https://www.youtube.com/watch?v=QLMIYoXz2Zg Multiplying and Dividing with negative numbers https://www.youtube.com/watch?v=CiLokLAIbY</p>

Standard	Computation Sample	Constructive Response Sample	Resources & How To Videos
-solving equations with variables on both sides	$8(4k - 4) = -5k - 32$ a) $K = -28/37$ b) $K = 0$ c) $K = -2$ d) $K = -28/27$	$r + 11 + 8r = 29$	Khan Academy Delta Math Desmo Math antics Mathbitsnotebook You tube video specific to skill https://www.youtube.com/watch?v=fDMxOiS5g7k
-intro to basic relation and functions	If $f(x) = 4(2x - 3)$, then what is $f(5)$?	Is the following a functions, explain why or why not? 	Khan Academy Delta Math Desmo Math antics Mathbitsnotebook You tube video specific to skill https://www.youtube.com/watch?v=52tpYl2tTqk
-determine slope (rate of change) in all forms		What is the slope of a line that passes through the points $(-2,5)$ and $(-7,2)$?	Khan Academy Delta Math Desmo Math antics Mathbitsnotebook You tube video specific to skill https://youtu.be/pGsicLglzY8 https://www.khanacademy.org/math/algebra-basics/alg-basics-graphing-lines-and-slope/alg-basics-slope/v/slope-and-rate-of-change Basics Linear https://www.youtube.com/watch?v=MXV65i9g1Xg
-graphing linear function ($y=mx+b$, slope intercept form)	Graph $y = \frac{3}{5}x - 7$. 	NA	Khan Academy Delta Math Desmo Math antics Mathbitsnotebook You tube video specific to skill https://www.youtube.com/watch?v=rgvysb9emcQ https://www.youtube.com/watch?v=MXV65i9g1Xg

Standard	Computation Sample	Constructive Response Sample	Resources & How To Videos
<p>-introduction to domain and range on a graph</p>	<p>What is the domain of the function shown below</p>  <p>1) $-1 \leq x \leq 6$ 2) $-1 \leq y \leq 6$ 3) $-2 \leq x \leq 5$ 4) $-2 \leq y \leq 5$</p>	<p>A meteorologist drew the accompanying graph to show the changes in relative humidity during a 24-hour period in New York City.</p>  <p>What is the range of this graph?</p>	<p>Khan Academy Delta Math Desmo Math antics Mathbitsnotebook You tube video specific to skill You tube video</p> <p>https://youtu.be/52tpYl2tTqk</p>
<p>-polynomial vocabulary and operations</p>	<p>Determine the degree and amount of terms in the following?</p> $2x^3 - 5x^2 + x + 3$	<p>What is difference of $2y - 5x$ and $-2x + 6y$?</p>	<p>Khan Academy Delta Math Desmo Math antics Mathbitsnotebook You tube video specific to skill Polynomials https://www.youtube.com/watch?v=ffLLmV4mZwU</p> <p>Simplifying Polynomials (combining like terms) https://www.youtube.com/watch?v=DKC74YKJpNY</p>