

## Rising Geometry - Select Algebra I

- D.2**Solve percent equations
- E.1**Convert rates and measurements: customary units
- G.1**Coordinate plane review
- H.1**Properties of addition and multiplication
- I.8**Solve equations using order of operations
- J.6**Solve equations with variables on both sides
- J.7**Solve equations: complete the solution
- K.6**Solve one-step linear inequalities
- O.1**Word problems: mixed review
- Q.5**Identify functions: vertical line test
- Q.7**Evaluate a function
- S.4**Find the slope from two points
- S.6**Slope-intercept form: find the slope and y-intercept
- S.7**Slope-intercept form: graph an equation
- S.17**Write equations in standard form
- S.18**Standard form: find x- and y-intercepts
- S.20**Equations of horizontal and vertical lines
- S.21**Graph a horizontal or vertical line
- S.26** Write an equation for a parallel or perpendicular line
- T.3**Graph a two-variable linear inequality
- T.5**Is  $(x, y)$  a solution to the system of inequalities?
- U.2**Solve a system of equations by graphing
- U.8**Solve a system of equations using substitution
- U.10**Solve a system of equations using elimination
- V.3**Negative exponents
- V.6**Multiplication and division with exponents
- V.7**Power rule
- W.1**Convert between standard and scientific notation
- X.1**Evaluate an exponential function
- Y.4**Multiply and divide monomials
- Y.5**Powers of monomials
- Z.4**Add and subtract polynomials
- Z.8**Multiply two binomials
- Z.10**Multiply polynomials
- AA.4**Factor quadratics with leading coefficient 1
- AA.5**Factor quadratics with other leading coefficients
- AA.7**Factor by grouping
- BB.6**Solve a quadratic equation using square roots
- BB.7**Solve a quadratic equation using the zero-product property
- BB.8**Solve a quadratic equation by factoring
- BB.11**Solve a quadratic equation using the quadratic formula
- BB.12**Using the discriminant
- CC.1**Identify linear, quadratic, and exponential functions from graphs
- DD.2**Graph an absolute value function
- EE.8**Simplify radical expressions: mixed review
- FF.4**Solve radical equations I

All sections are to be completed with a smart score of 65 or greater.