**Algebra I**

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| **Expressions and Operations** | | | | |
| Verbal quantitative situations | Algebraic expressions | Order of operations | Absolute value | Square root |
| Cube root | Replacement set | Rational number | Rationalizing the denominator | Mathematical modeling |
| Variables | Magnitude of a number | Laws of exponents | Polynomials | First-degree polynomial |
| Second-degree polynomial | Monomial expression | Sum, difference, product, quotient of polynomials | Binomial | Trinomial |
| Greatest Common Factor (GCF) | Factors | Factoring | Prime polynomial | Function |
| Scientific Notation | Radical expression | Radicand | Perfect square | Principal square root |

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| **Equations and Inequalities** | | | | |
| Linear inequality | Coordinate pair | System of linear inequalities | Solution | Half-plane |
| Properties of real numbers | Properties of inequalities | Associative Property of Addition | Associative Property of Multiplication | Commutative Property of Addition |
| Commutative Property of Multiplication | Identity Property of Addition (Additive Identity) | Identity Property of Multiplication (Multiplicative Identity) | Inverse Property of Addition (Additive Inverse) | Inverse Property of Multiplication (Multiplicative Inverse) |
| Distributive Property | Transitive Property of Inequality | Transitive Property of Inequality | Addition Property of Inequality | Subtraction Property of Inequality |
| Multiplication Property of Inequality | Division Property of Inequality | Substitution | Slope of a line | Equation of a line |
| y-intercept | Transformation | Dilation | Reflection | Translation |
| x-intercept | Parent function | Dependent variable | Independent variable | Graph of a line |
| Parallel lines | Perpendicular lines | Undefined slope | Positive slope | Negative slope |

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**Algebra I (continued)**

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| **Functions** | | | | |
| Linear function | Quadratic Function | Relation | Function | Domain |
| Range | Zeros | Intercepts | Elements in the domain | Function family |
| Input | Output | Zero of a function | x-intercept | Coordinate |
| y-intercept |  |  |  |  |

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| **Statistics** | | | | |
| Data set | Direct variation | Inverse variation | Constant of Proportionality | Curve of best fit |
| Scatterplot | Origin | Inversely proportional | Constant of variation |  |

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