**Algebra I**

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| **Expressions and Operations** | | | | |
| Verbal quantitative situations | Algebraic expressions | Order of operations | Absolute value | Square root |
| Cube root | Replacement values | Rational number | Polynomial | Monomial |
| Polynomial factoring | Binomial | Trinomial | Prime polynomial | Factoring |
| Function | Synthetic division | Radical expression | Square root | Cube root |
| Radicand | Perfect square | Perfect cube | Non-perfect cube | Consecutive integers |
| Linear equation | Quadratic equation | Properties of real numbers | Literal equation | System of linear equations |
| Associative Property of Addition | Associative Property of Multiplication | Commutative Property of Addition | Commutative Property of Multiplication | Identity Property of Addition (Additive Inverse) |
| Additive Property of Multiplication (Multiplicative Identity) | Inverse Property of Addition (Additive Inverse) | Inverse Property of Multiplication (Multiplicative Inverse) | Distributive Property | Multiplicative Property of Zero |
| Zero Product Property | Reflexive Property | Symmetric Property | Transitive Property of Equality | Additive Property of Equality |
| Subtraction Property of Equality | Multiplication Property of Equality | Division Property of Equality | Substitution | Reasonableness |
| Parallel Lines (no solution) | Intersecting Lines (One solution) | Coinciding Lines (Infinite number of solutions) | Inequality | Slope |
| Linear function | Rate of change | y-intercept | Vertical line | Horizontal line |
| Parallel lines | Perpendicular lines | Parent function |  |  |

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| **Functions** | | | | |
| Linear function | Quadratic Function | Relation | Function | Domain |
| Range | Zeros | Intercepts | x-intercept | Polynomial function |

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**Algebra I (continued)**

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

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