



WEST SHORE SCHOOL DISTRICT

Pacing Guide: Algebra Grade 7

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1	Foundations of Algebra
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6	Relations & Functions
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8	Linear Equations
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13	Systems of Linear Equations
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17	Inequalities
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21	Polynomials & Factoring
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24	Rational Expressions
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29	Data Analysis & Probability
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34	Geometry
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Module 1- Foundations of Algebra (5 weeks) (2 summative tests)

Part 1- Number system, properties (12), variables and expressions, order of operations, writing & simplifying expressions. Part 2- Writing & Solving Linear Equations, solving word problems using equations, solving for a specific variable, applications of word problem

Module 2- Relations & Functions (2 weeks)

Relations, Functions, Linear Functions

Module 3- Linear Equations (5 weeks)

Slope & rate of change, slope-intercept form, point-slope form, standard form, graphing linear equations, parallel & perpendicular, application of word problems, scatterplots

Module 4- Systems of Linear Equations (4 weeks)

Graphing (all 3 solutions), substitution, elimination (all 4), application of systems

Module 5- Inequalities (4 weeks)

Solving inequalities (all 4 operations), solving multi-step inequalities, compound inequalities, absolute value in equations & inequalities, graphing inequalities

Module 6- Polynomials & Factoring (3 weeks) (2 tests)

Multiplication of monomials, division of monomials, adding & subtracting polynomials, multiplying a monomial & polynomials, multiplying polynomials, factoring a GCF, distributive property to factor, trinomials w & w/out lead coefficient

Module 7- Rational Expressions (5 weeks)

Simplifying rational expressions, multiplying & dividing rational expressions

Module 8- Data Analysis & Probability (5 weeks)

Random samples, inferences, populations, mean, median, mode, range, box and whisker plot, probability, relative frequency simple event, compound events, tree diagrams, independent events

Module 9- Geometry (3 weeks)

Angles (unknown angle), alternate interior angles, alternate exterior angles, vertical, corresponding angles within transversals, properties of circles, area, circumference of circles, volume, surface area (2D/3D), slicing 3D objects, scale drawings, properties of triangles, Pythagorean Theorem, triangle inequality theorem