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Algebra Prep

Guiding Principle

A student at the proficient level in Algebra Prep will be able to demonstrate understanding of high school mathematics by solving problems, reasoning, communicating, representing, and making connections based on the following indicators:

Benchmark/Topics	**As a result of studying Algebra Prep, I will be able to:**
(1) Number Operations • Decimals • Fractions • Integers • Percents • Definition of exponents • Order of Operations	2.1.1 Demonstrate proficiency of number operations using ☐ Decimals ☐ Fractions ☐ Integers ☐ Percents ☐ exponents (expand and simplify) ☐ order of operations
(2) Introductory Unit • Vocabulary • Variables • Algebraic expressions • Properties • Simplify	3.2.2 Demonstrate an understanding of introductory algebraic concepts when I can ☐ Use appropriate vocabulary ☐ Identify and assign variables ☐ Translate algebraic expressions into words and vice versa ☐ Apply and identify algebraic properties and identities of the real number system ☐ Simplify algebraic expressions by combining like terms
(3) Linear Equations • Solving • Word Problems	3.3.3 Utilize algebraic methods to ☐ Solve linear equations ☐ Translate words into algebraic expressions and or equations
(4) Graphing Lines • Slope • Plotting Points • Slope-Intercept • *x*-intercept and *y*-intercept	7.1.4 Demonstrate knowledge of linear equations and graphs when I can ☐ Determine the slope given two points or a graph ☐ Use the following methods to graph: ☐ Plotting points ☐ Slope and y-intercept ☐ *x*- and *y*-intercept

(5) Polynomials • Basic operations	3.2.5 Show understanding of polynomials when I can ☐ Perform basic operations on polynomials
(6) Factoring • GCF • Trinomials • Difference of Squares	3.2.6 Factor polynomials completely using the following methods: ☐ Greatest Common Factor ☐ trinomials factored into binomial factors ☐ difference of Squares
(7) Introduction to Rational Expressions and Equations • Simplify • Solve	3.0.7 Show understanding of rational expressions when I can ☐ simplify rational expressions ☐ solve basic rational equations
(8) Basic Statistics • Mean • Median • Mode • Range • Interpreting Graphs • Scatter Plots • Bar Graphs • Pie Graphs • Box and Whisker Plots	6.2.8 Demonstrate knowledge of basic statistics when I can ☐ Calculate or identify the ☐ mean ☐ median ☐ mode ☐ range ☐ Interpret and draw the following graphs: ☐ Scatter plots ☐ Bar graphs ☐ Pie graphs ☐ Box and whisker plots

*Benchmark Key – State Content Standard . State Benchmark . District Benchmark