







Cornwall-Lebanon School District Curriculum Overview

Algebra 1 Honors: High School

 length of time in weeks	Concepts & Competencies	Common Assessments	PA Core Standards
Unit 1 	<u>Foundations of Algebra</u> Students will apply the order of operations to simplify expressions. Students will translate algebraic expressions. Students will apply properties of real numbers. Students will be able to evaluation expressions.	<ul style="list-style-type: none"> ➤ Distributing Quiz ➤ 1.7 Quiz 	CC.2.1.HS.F.2 CC.2.2.HS.D.2 CC.2.2.HS.D.3
Unit 2 	<u>Solving Equations</u> Students will be able to solve one-variable equations. Students will write and solve one-variable equations for real world problems.	<ul style="list-style-type: none"> ➤ 2.1 Quiz: One-step Equations ➤ 2.2 Quiz: Two-step Equations ➤ 2.4 Quiz: Variables on Both Sides ➤ VESS Quiz ➤ Ch. 2 Test: Solving Equations 	CC.2.2.HS.D.8 CC.2.2.HS.D.9 CC.2.2.HS.D.10
Unit 3 	<u>Solving Inequalities</u> Students will be able to solve and graph one-variable inequalities. Students will be able to represent solutions using interval notation.	<ul style="list-style-type: none"> ➤ 3.1-3.3 Quiz: One-Step Inequalities ➤ 3.4 Quiz: Solving Multi-step Inequalities ➤ 3.6 Quiz: Compound Inequalities ➤ 3.7 Part 1: Absolute Value Equations ➤ Ch. 3 Test 	CC.2.2.HS.D.7 CC.2.2.HS.D.8 CC.2.2.HS.D.9 CC.2.2.HS.D.10
Unit 4 	<u>Functions</u> Students will identify the domain and range of a relation. Students will use function notation. Students will determine whether a relation is a function. Students will graph function rules.	<ul style="list-style-type: none"> ➤ 4.4 Quiz: Graphing Function Rules ➤ Ch. 4 Test 	CC.2.2.HS.C.1 CC.2.2.HS.C.2 CC.2.2.HS.C.3
Unit 5 	<u>Linear Functions</u> Students will determine the rate of change of change. Students will graph linear equations in slope-intercept and standard form. Students will write linear equations in slope-intercept and standard form. Students will determine the line of best fit.	<ul style="list-style-type: none"> ➤ 5.1 Quiz: Slope ➤ 5.3 Part 1 Quiz: Graphing Equations in Slope-Intercept Form ➤ 5.3 Part 2 Quiz: Writing Equations in Slope-Intercept Form Given a Point and the Slope ➤ 5.4 Quiz: Writing Equations in Slope-Intercept Form Given Two Points ➤ 5.5 Quiz: Standard Form ➤ Ch. 5 Test 	CC.2.2.HS.D.7

Unit 6	3	<u>Systems of Linear Equations and Inequalities</u> Students will be able to solve a system of linear equations. Students will be graphing a system of linear inequalities.	➤ Substitution Quiz ➤ Linear Combination Quiz CC.2.2.HS.D.10
Unit 7	4	<u>Exponents</u> Students will be able to apply the rules of integer exponents to simplify expressions.	➤ 7.1 Quiz: Zero and Negative Exponents ➤ 7.3 Quiz: Multiplication Property of Exponents ➤ 7.4 Quiz: Power Rule ➤ Ch. 7 Test CC.2.1.HS.F.1
Unit 8	2	<u>Polynomials and Factoring</u> Students will be able to use arithmetic operations to simplify polynomials. Students will factor polynomials. Students will simplify radical expressions. Students will determine GCF and LCM of numeric and algebraic expressions.	➤ Simplifying Radicals Quiz ➤ Factoring Quadratics Quiz CC.2.2.HS.D.3