

Cornwall-Lebanon School District Curriculum Overview

Algebra 2 – High School

36	length of time in weeks	Concepts & Competencies	Common Assessments	Academic Standards (PA Core if applicable)
Unit 1	3	<p style="text-align: center;"><u>Solving Equations & Inequalities</u></p> <p>Students will solve equations and inequalities including linear and absolute value. Students will apply these concepts to real world situations.</p>	<ul style="list-style-type: none"> ➤ Solving Equations Quiz ➤ Solving Inequalities Quiz ➤ Absolute Value Equations & Inequalities Quiz ➤ Unit 1 Test 	CC.2.1.HS.F.2 CC.2.2.HS.C.3 CC.2.2.HS.C.6 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 2	7	<p style="text-align: center;"><u>Functions, Equations, & Graphs</u></p> <p>Students will classify relations as functions and evaluate functions. Students will state the domain and range of a graph. Students will write linear equations, including parallel and perpendicular lines. Students will graph linear equations, linear inequalities and absolute value functions. Students will apply these concepts to real world situations.</p>	<ul style="list-style-type: none"> ➤ Domain & Range Quiz ➤ Writing Equations of Lines Quiz ➤ Marking Period 1 Exam (cumulative) ➤ Graphing Equations and Inequalities Quiz ➤ Linear Regression Quiz ➤ Graphing Absolute Value Equation & Inequality Quiz 	CC.2.1.HS.F.3 CC.2.2.HS.D.7 CC.2.2.HS.D.9 CC.2.2.HS.D.10 CC.2.2.HS.C.1 CC.2.2.HS.C.2 CC.2.2.HS.C.3 CC.2.2.HS.C.6 CC.2.4.HS.B.2 CC.2.4.HS.B.3
Unit 3	4	<p style="text-align: center;"><u>Systems of Equations & Inequalities</u></p> <p>Students will solve systems of equations graphically and algebraically. Students will solve systems of inequalities. Students will apply these concepts to real world situations.</p>	<ul style="list-style-type: none"> ➤ Solving Systems of Equations Quiz ➤ Applications of Systems of Equations Quiz ➤ Systems of Inequalities Quiz ➤ Systems of Equations & Inequalities Test 	CC.2.2.HS.C.3 CC.2.2.HS.C.6 CC.2.2.HS.D.9 CC.2.2.HS.D.10
Unit 4	6	<p style="text-align: center;"><u>Polynomials, Functions, & Operations</u></p> <p>Students will learn and apply properties of exponents. Students will add, subtract, and multiply polynomials. Students will perform function operations. Students will factor</p>	<ul style="list-style-type: none"> ➤ Properties of Exponents Quiz ➤ Polynomials & Function Operations Quiz ➤ Factoring Quiz ➤ Midterm (cumulative) 	CC.2.1.HS.F.1 CC.2.1.HS.F.7 CC.2.2.HS.C.1 CC.2.2.HS.C.4

		polynomials, solve by factoring and apply these concepts to real world situations.		CC.2.2.HS.D.3
Unit 5	5	<u>Rational Expressions & Equations</u> Students will simplify and perform operations with rational expressions.	➤ Multiplying & Dividing Rational Expressions Quiz	CC.2.1.HS.F.2 CC.2.2.HS.D.1 CC.2.2.HS.D.6 CC.2.2.HS.D.9
Unit 6	5	<u>Radical Expressions & Equations</u> Students will simplify and perform operations with radical expressions. Students will solve radical equations.	<ul style="list-style-type: none"> ➤ Simplifying & Operations with Radicals Quiz ➤ Solving Radical Equations Quiz ➤ Marking Period 3 Exam (cumulative) 	CC.2.1.HS.F.1 CC.2.1.HS.F.2 CC.2.1.HS.F.6 CC.2.1.HS.F.7 CC.2.2.HS.C.4 CC.2.2.HS.D.1 CC.2.2.HS.D.6 CC.2.2.HS.D.8 CC.2.2.HS.D.9 CC.2.2.HS.D.10
Unit 7	6	<u>Quadratics</u> Students will solve quadratic equations by square root property or quadratic formula. Students will graph quadratic equations. Students will apply these concepts to real world situations.	<ul style="list-style-type: none"> ➤ Solving Quadratics Quiz ➤ Graphing Quadratics Quiz ➤ Applications of Quadratics Quiz ➤ Quadratics Test ➤ Final Exam (cumulative) 	CC.2.1.HS.F.7 CC.2.2.HS.C.5 CC.2.2.HS.D.4