






Cornwall-Lebanon School District Curriculum Overview

Keystone Math- High School

 length of time in weeks	Concepts & Competencies	Common Assessments	PA Core Standards
Unit 1 	<u>Operations with Real Numbers and Expressions</u> Students will compare and order real numbers. Students will simplify square roots. Students will determine the greatest common factor and least common multiple. Students will simplify expressions using the properties of exponents. Students will use estimation to solve problems.	<ul style="list-style-type: none"> ➤ Lesson 1 and 2 Quiz ➤ Lessons 1-3 Quiz ➤ Quiz 3 ➤ Unit 1 Exam 	CC.2.1.HS.F.1 CC.2.1.HS.F.2 CC.2.2.HS.D.2 CC.2.2.HS.D.9
Unit 2 	<u>Polynomials and Factoring</u> Students will add, subtract, and multiply polynomial expressions. Students will factor algebraic expressions, including trinomials and difference of squares. Students will simplify rational algebraic expressions.	<ul style="list-style-type: none"> ➤ Unit 2- Lesson 1 and 2 Quiz ➤ Unit 2- Lesson 1 and 2 Quiz #2 ➤ Unit 2- Lesson 2 Quiz ➤ Unit 2 Exam 	CC.2.2.HS.D.3 CC.2.2.HS.D.5 CC.2.2.HS.D.6
Unit 3 	<u>Linear Equations</u> Students will identify an algebraic property to justify any step in the equation solving process. Students will interpret solutions to problems in the context of the problem situation. Students will solve single variable equations. Students will solve two-variable equations. Students will solve linear systems of equations by graphing, substitution, and linear combination. Students will write a system of equations to represent a word problem.	<ul style="list-style-type: none"> ➤ Quiz 3.1 & 3.2 ➤ Substitution & Graphing Quiz ➤ Unit 3 Lesson 3 Quiz ➤ Unit 3 Exam 	CC.2.2.HS.D.2 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>Linear Inequalities</u> Students will write and/or solve inequalities. Students will write and/or solve compound inequalities. Students will write and/or solve absolute value inequalities. Students will graph the solution set to an inequality on a number line. Students will write and/or solve a linear inequality using graphing. Students will write and/or solve a system of linear inequalities using graphing.	<ul style="list-style-type: none"> ➤ Compound Inequality ➤ Absolute Value Quiz ➤ Graphing Systems of Linear Inequalities Quiz ➤ Unit 4 Exam 	CC.2.2.HS.D.2 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 5	3	<p><u>Functions</u></p> <p>Students will represent the pattern for a set of data algebraically and/or graphically. Students will determine whether a relation is a function, given a set of points or a graph. Students will identify the domain or range of a relation or function. Students will create, interpret, and/or use the equation, graph, or table of a linear function. Students will translate from one representation of a linear function to another.</p>	<ul style="list-style-type: none"> ➤ Unit 5- Lesson 1 & 2 Quiz ➤ Unit 5 Exam 	<p>CC.2.2.HS.D.7</p> <p>CC.2.2.HS.C.1</p> <p>CC.2.2.HS.C.2</p> <p>CC.2.2.HS.C.3</p> <p>CC.2.2.HS.C.6</p> <p>CC.2.4.HS.B.3</p>
Unit 6	5	<p><u>Linear Functions & Coordinate Geometry</u></p> <p>Students will describe, compute, and/or use the rate of change (slope) of a line. Students will determine the slope, x-intercept, and/or y-intercept represented by a linear equation or graph. Students will write a linear equation when given: the graph of the line, two points on a line, or the slope and a point on the line. Students will draw, identify, and/or write an equation for a line of best fit for a scatter plot.</p>	<ul style="list-style-type: none"> ➤ Unit 6 Lesson 1 Quiz ➤ Slope and Standard Form Quiz ➤ Linear Regression Quiz ➤ Unit 6 Exam 	<p>CC.2.1.HS.F.3</p> <p>CC.2.1.HS.F.4</p> <p>CC.2.2.HS.D.2</p> <p>CC.2.2.HS.D.8</p> <p>CC.2.2.HS.D.9</p> <p>CC.2.2.HS.D.10</p> <p>CC.2.2.HS.C.3</p> <p>CC.2.2.HS.C.6</p> <p>CC.2.4.HS.B.3</p>
Unit 7	5	<p><u>Data Analysis</u></p> <p>Students will use measures of center and/or measures of dispersion to describe a set of data. Students will use data displays in problem-solving settings and/or make predictions. Students will determine probabilities for simple and compound events.</p>	<ul style="list-style-type: none"> ➤ Week 6 Quiz ➤ Unit 7 Exam 	<p>CC.2.1.HS.F.3</p> <p>CC.2.4.HS.B.1</p> <p>CC.2.4.HS.B.2</p> <p>CC.2.4.HS.B.3</p> <p>CC.2.4.HS.B.6</p> <p>CC.2.4.HS.B.7</p>