






Cornwall-Lebanon School District Curriculum Overview

Algebra 1-B: High School

|  length of time in weeks | Concepts & Competencies | Common Assessments | PA Core Standards |
|---|---|---|---|
| Unit 1  7 | <p style="text-align: center;"><u>Operations with Real Numbers and Expressions</u></p> <p>Students will apply the order of operations to simplify expressions. Students will apply the properties of real numbers to evaluate expressions. Students will apply the rules of integer exponents to simplify expressions. Students will compare and order real numbers. Students will find the GCF and LCM of numeric and algebraic expressions. Students will be able to simplify radical expressions.</p> | <ul style="list-style-type: none"> ➤ Compare and Order Real Numbers Quiz ➤ Exponents Quiz ➤ GCF & LCM Quiz ➤ Simplify Radicals Quiz ➤ Ch. 1 Test | CC.2.1.HS.F.1 CC.2.1.HS.F.2 CC.2.2.HS.D.2 CC.2.2.HS.D.3 |
| Unit 2  6 | <p style="text-align: center;"><u>Linear Equations</u></p> <p>Students will be able to solve one-variable equations. Students will write and solve one-variable equations for real world problems.</p> | <ul style="list-style-type: none"> ➤ Solving Equations Quiz ➤ Variables on Both Sides Quiz ➤ VESS Quiz ➤ Absolute Value Quiz ➤ Ch. 2 Test | CC.2.2.HS.D.8 CC.2.2.HS.D.9 CC.2.2.HS.D.10 |
| Unit 3  5 | <p style="text-align: center;"><u>Linear Inequalities</u></p> <p>Students will be able to solve and graph one-variable inequalities. Students will be able to represent solutions using interval notation.</p> | <ul style="list-style-type: none"> ➤ One-Variable Inequalities Quiz ➤ Compound Inequalities Quiz ➤ Absolute Value Inequalities Quiz ➤ 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  3 | <p style="text-align: center;"><u>Functions</u></p> <p>Students will identify the domain and range of a relation. Students will use function notation. Students will determine whether a relation is a function.</p> | <ul style="list-style-type: none"> ➤ Domain and Range Quiz ➤ Vocabulary Quiz ➤ Ch. 4 Test | CC.2.2.HS.C.1 CC.2.2.HS.C.2 CC.2.2.HS.C.3 |

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| <p>Unit 5</p> <p>6</p> | <p><u>Coordinate Geometry/Linear Equations</u></p> <p>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. Students will graph linear inequalities.</p> | <ul style="list-style-type: none"> ➤ Slope Quiz ➤ Rate of Change Quiz ➤ Writing Linear Equations Quiz ➤ Ch. 5 Test | <p>CC.2.2.HS.D.7</p> |
| <p>Unit 6</p> <p>3</p> | <p><u>Systems of Linear Equations and Inequalities</u></p> <p>Students will be able to solve a system of linear equations. Students will be graph a system of linear inequalities.</p> | <ul style="list-style-type: none"> ➤ Graphing Systems Quiz ➤ Substitution Quiz ➤ Elimination Quiz ➤ Ch. 6 Test | <p>CC.2.2.HS.D.10</p> |
| <p>Unit 7</p> <p>2</p> | <p><u>Polynomials and Factoring</u></p> <p>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.</p> | <ul style="list-style-type: none"> ➤ Simplify Polynomials Quiz | <p>CC.2.2.HS.D.3</p> |