

# Cornwall-Lebanon School District Curriculum Overview

## 8<sup>th</sup> Grade Math Honors

length of time in weeks	Concepts & Competencies	Common Assessments	Academic Standards (PA Core if applicable)
<b>Unit 1</b> <div style="border: 1px solid red; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px auto;">2</div>	<p style="text-align: center;"><b><u>Integer/Rational Numbers</u></b></p> Adding, subtracting, multiplying and dividing integers Square/Cube Roots Order of Operations Real World Application	<ul style="list-style-type: none"> <li>➤ Rational Numbers Unit Test</li> <li>➤ MP1 Exam</li> </ul>	CC.2.2.HS.D.2, CC.2.2.HS.D.1, CC.2.1.HS.F.2, CC.2.1.HS.F.4
<b>Unit 2</b> <div style="border: 1px solid red; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px auto;">2</div>	<p style="text-align: center;"><b><u>Exponential Properties</u></b></p> Multiplication Properties Division Properties Power to a Power Properties Negative and Zero Properties Scientific Notation <ul style="list-style-type: none"> <li>- Convert Scientific Notation to Standard Form</li> <li>- Convert Standard Form to Scientific Notation</li> <li>- Multiply and Divide Scientific Notation</li> </ul> Real World Applications	<ul style="list-style-type: none"> <li>➤ Exponential Properties Unit Test</li> <li>➤ MP1 Exam</li> </ul>	CC.2.2.1.HS.F.1
<b>Unit 3</b> <div style="border: 1px solid red; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px auto;">3</div>	<p style="text-align: center;"><b><u>Irrational Numbers</u></b></p> Estimating square roots and cube roots Number Line Operations with roots Square/Cube Root equations Simplifying radicals Pythagorean Theorem methods	<ul style="list-style-type: none"> <li>➤ Irrational Numbers Unit Test</li> <li>➤ MP2 Exam</li> </ul>	CC.2.1.8.E.4, M08.A-N.1.1.3, M08.A-N.1.1.4, M08.A-N.1.1.5, CC.2.3.8.A.3, A1.1.1.1.2, CC.2.2.HS.D.2
<b>Unit 4</b> <div style="border: 1px solid red; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px auto;">2</div>	<p style="text-align: center;"><b><u>Basic Alegbra</u></b></p> Solving one step equations Solving two step equations Solving multi-step equations One Solution, No Solutions, Infinite Solutions Real World Applications	<ul style="list-style-type: none"> <li>➤ Basic Algebra Unit Test</li> <li>➤ MP2 Exam</li> </ul>	CC.2.1.HS.F.2, CC.2.2.HS.D.2 CC.2.2.HS.D.3, CC.2.2.HS.D.8, CC.2.2.HS.D.9

<b>Unit 5</b> <div style="border: 1px solid red; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px auto;">2</div>	<p style="text-align: center;"><u><b>Inequalities</b></u></p> Graph inequalities Graph compound inequalities Solve linear inequalities Graph linear inequalities Absolute Value Inequalities	<ul style="list-style-type: none"> <li>➤ Inequalities Unit Test</li> <li>➤ MP4 Exam</li> </ul>	CC.2.2.HS.D.3, CC.2.2.HS.D.7, CC.2.2.HS.D.10, CC.2.1.HS.F.4
<b>Unit 6</b> <div style="border: 1px solid red; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px auto;">5</div>	<p style="text-align: center;"><u><b>Graphing Linear Equations/Functions</b></u></p> Function or Not a Function Domain and Range Function Notation X-Y Function Tables Writing the function rule Rate of Change Slope Comparing Slope/Rate of Change Point Slope Form Standard Form Real World Applications	<ul style="list-style-type: none"> <li>➤ Functions Unit Test</li> <li>➤ MP3 Exam</li> </ul>	CC.2.2.HS.D.7, CC.2.2.HS.D.10, CC.2.1.HS.F.4, CC.2.2.HS.C.1, CC.2.2.HS.C.2, CC.2.2.HS.C.3, CC.2.2.HS.C.5, CC.2.2.HS.C.6
<b>Unit 7</b> <div style="border: 1px solid red; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px auto;">1</div>	<p style="text-align: center;"><u><b>Statistics</b></u></p> Linear vs Non-Linear Scatter Plots Linear Regression	<ul style="list-style-type: none"> <li>➤ Statistics Unit Test</li> <li>➤ MP3 Exam</li> </ul>	CC.2.4.HS.B.1 CC.2.4.HS.B.2
<b>Unit 8</b> <div style="border: 1px solid red; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px auto;">4</div>	<p style="text-align: center;"><u><b>Systems</b></u></p> Solve systems by graphing Solve systems by substitution Solve systems by elimination Real World Applications Solve linear inequalities Solve Systems of linear inequalities Real World Applications	<ul style="list-style-type: none"> <li>➤ Systems of Equations Test</li> <li>➤ Systems of Inequalities Test</li> <li>➤ MP3 Exam</li> </ul>	CC.2.2.HS.D.10
<b>Unit 9</b> <div style="border: 1px solid red; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px auto;">2</div>	<p style="text-align: center;"><u><b>Polynomials</b></u></p> Classify Add, Subtract Polynomials Multiplying Polynomials Factor Polynomials Simplifying Polynomials	<ul style="list-style-type: none"> <li>➤ Volume Unit Test</li> <li>➤ MP3 Exam</li> </ul>	CC.2.2.HS.D.4, CC.2.2.HS.D.5, CC.2.2.HS.D.6 CC.2.2.HS.D.2, CC.2.2.HS.D.3