

# 2019-2020 CONRADY JUNIOR HIGH 7th Grade Honors Math CURRICULUM MAP

Unit #/Name	Common Core State Standards	Estimated Time
<b>Unit 1</b> Rational Numbers, Operations, and Number Sense	7.NS.1a, 1b-1, 1b-2, 1c-1, 1c-2, 1d (Add and subtract rational numbers) 7.NS.2a-1, 2a-2, 2b-1, 2b-2, 2c, 2d (Multiply and divide rational numbers) 7.NS.3 (Solve real-world problems with rational numbers) 8.EE.2 (Evaluate expressions with square root and cube roots) 8.NS.1 (Decimal expansions and irrational numbers) 8.NS.2 (Compare values of irrational numbers) 7.C.1.1; 7.C.2; 7.C.3; 7.C.7.2; 7.C.7.3; 7.D.1	Q1 17 days 1 Quiz 1 Test Tentative dates: Aug. 21 – Sept. 15
<b>Unit 2</b> Expressions & Equations	7.NS.3 (Solve real-world problems with rational numbers) 7.EE.1 (Add, subtract, factor, expand linear expressions) 7.EE.2 (Understand rewriting expressions as strategy for solving in context) 7.EE.3 (Solve multi-step real-world problems and convert between forms in context) 7.EE.4a-1, 4a-2 (Solve real-world problems involving equations) 8.EE.2 (Square root and cube root equations) 8.EE.7a, 7b Solve linear equations in one variable. 7.C.1.2; 7.C.7.4; 7.C.5; 7.D.1; 7.D.3; 8.C.2; 8.EE.C.Int.1	Q1 22 days NO Quiz 1 Test Tentative dates: Sept 18 – Oct. 18
<b>Unit 3</b> Inequalities	7.EE.4b-1, 4b-2 (Solve real-world problems involving inequalities)	Q1/Q2 5 days Quiz only October 25
<b>Proficiency Exam First Week of November</b>		
<b>Unit 4</b> Ratios & Proportions	7.RP.1 (Unit rates) 7.RP.2a, 2b, 2c, 2d (Proportional Relationships) 7.RP.3-1, 3-2 (Solve multistep ratio problems: 7.G.1 (Scale Drawings) 7.C.4; 7.C.6.1; 7.C.6.2; 7.C.7.1; 7.D.2; 7.D.3; 7.D.4	Q2 23 days 1 Quiz Test Dates: November 16/17
<b>Unit 5</b> Percents	7.RP.3-2 (Solve multi- step percent problems: simple interest, mark up, mark down, tip, percent increase/decrease, percent error, and commission) 7.EE.2 (Understand rewriting expressions as strategy for solving in context; EX: 1.05a means increase by 5%) 7.C.4; 7.C.6.1; 7.C.6.2; 7.C.7.1; 7.D.2; 7.D.3; 7.D.4	Q2 9 days Quiz Only December 9

<p><b>Unit 6</b> Linear Relations</p>	<p>8.EE.5-1, 5-2 (Graph and compare proportional relationships)  8.EE.6-1, 6-2 (Use similar triangles to explain slope; deriving equation in <math>y = mx + b</math> form)  8.SP.3 (Interpret slope in data representation)  8.C.1.1; 8.C.5.1</p>	<p>Q2/Q3  16 days  No Quiz  1 Test  Tentative Dates  Dec. 11 – Dec. 20</p> <p><b>January 20/21</b></p>
<p><b>Unit 7</b> Functions</p>	<p>8.F.1-1, 1-2 (Definition of Functions)  8.F.2 (Compare properties of functions - Slope &amp; Rate of Change)  8.F.3-1, 3-2 (State whether functions are linear or nonlinear)  8.F.4-1, 4-2 (Construct &amp; interpret linear functions -from equation, table, ordered pairs, or a graph)  8.F.5-1, 5-2 (Describe functional relationships - sketch graphs; determine linear/nonlinear; where the function is increasing, decreasing or constant)  8.C.3.1</p>	<p>Q3  11 days  No Quiz  1 Test  Tentative Dates  Jan. 22 – Feb. 6</p>
<p><b>Unit 8</b> Exponents</p>	<p>8.EE.1 (Properties of Integer exponents)  8.EE.3 (Very small and very large quantities)  8.EE.4-1, 4-2 (Operations with Scientific notation)</p>	<p>Q3  22 days  1 Quiz  1 Test  Tentative Dates  Feb. 7 – Mar. 13</p>
<p><b>Second Part of Proficiency Exam Second Week of March</b></p>		
<p><b>Unit 9</b> Geometry</p>	<p>7.G.2 (Draw geometric shapes with given conditions)  7.G.3 (Describe 2D figures resulting from slicing 3D figures)  7.G.4 (Area and circumference of circle)  7.G.5 (Solve equations for unknown angle)  7.G.6 (Solve real-world problems involving area, volume and surface area)  8.EE.2 (Square root and cube roots)  8.G.5 (Angles, parallel lines cut by transversal)  8.G.9 (Volume of cones, cylinders, and spheres)</p>	<p>Q4  11 days  1 Quiz  1 Test  March 19 - April 24  April 24</p>

<p><b>Unit 10</b> Systems of Equations</p>	<p>8.EE.8a, 8b-1, 8b-2, 8b-3, 8c (Pairs of simultaneous linear equations) 8.EE.C.Int.1 (Solve word problems leading to linear equations in one variable whose solutions require expanding expressions using the distributive property and collecting like terms). 8.C.1.2; 8.C.2; 8.C.4.1</p>	<p>Q4 10 days Quiz/Test April 25 - May 8 May 8</p>
<p><b>Unit 11</b> Congruence &amp; Similarity</p>	<p>8.G.1a, 1b, 1c (Verify properties of transformations) 8.G.2 (Understand congruence using transformation) 8.G.3 (Describe effects of transformations in plane) 8.G.4 (Understand similarity using transformation) 8.G.5 (Angles, parallel lines cut by transversal) 8.EE.8c (Pairs of simultaneous linear equations) 8.C.3.2; 8.C.3.3; 8.C.5.2</p>	<p>Q4 10 days Quiz/Test May 9 - May 22 May 22</p>
<p><b>Unit 12</b> Pythagorean Theorem</p>	<p>8.G.6 (Proof of Pythagorean Theorem) 8.G.7-1, 7-2 (Apply Pythagorean Theorem to determine unknown side length) 8.G.8 (Apply Pyth Theorem to find distance between points) 8.C.5.3</p>	<p>Q4 5 days Quiz Only May 23 - 30 May 30</p>