

# Trigonometry: Unit Schedule

When			Student Objectives and Homework
12/3	Wednesday	1	<b>Trigonometric Function Review</b> <ul style="list-style-type: none"> <li>Use the six trigonometric ratios to find the length of sides or angle measures in right triangles.</li> </ul> <b>Homework</b> 14-3 Right Triangles and Trigonometric Ratios, all problems
12/4	Thursday	2	<b>Special Right Triangles and the Unit Circle</b> <ul style="list-style-type: none"> <li>Derive the side length ratios for the 30-60-90 and 45-45-90 triangles</li> <li>Describe how these special triangles relate to the unit circle.</li> <li>Construct a unit circle. Include both degree and radian angle measure.</li> </ul> <b>Homework</b> Complete the blank Unit Circle
12/5	Friday	3	<b>Using the Unit Circle</b> <ul style="list-style-type: none"> <li>Find trigonometric values for angles found on the unit circle.</li> <li>Identify both positive and negative angles on the unit circle.</li> <li>Transfer between radian and degree measure.</li> <li>Identify co-terminal angles.</li> </ul> <b>Homework</b> Unit Circle Worksheets <b>QUIZ</b> – Trigonometric Ratios
12/8	Monday	4	<b>Trig Identities</b> <ul style="list-style-type: none"> <li>Derive the Pythagorean Identity from the unit circle.</li> <li>Derive the Tan and Cot versions of the Pythagorean Identity</li> <li>Prove trigonometric identities and simplify trigonometric expressions</li> </ul> <b>Homework</b> WBP 371, 2-38 even
12/9	Tuesday	5	<b>Graphing Sine and Cosine</b> <ul style="list-style-type: none"> <li>Recognize Sine and Cosine parent graphs and their properties.</li> <li>Identify transformations applied to the parent sine and cosine functions from both a graph and an equation.</li> </ul> <b>Homework</b> Graphing worksheets <b>QUIZ</b> – Complete a Unit Circle
12/10	Wednesday	6	<b>Graphing Continued</b> <ul style="list-style-type: none"> <li>Identify phase shift and midline for transformed sine and cosine functions from both a graph and equation.</li> <li>Identify the graph of a tangent function and determine where the vertical asymptotes occur.</li> </ul> <b>Homework</b> Graphing Worksheets <b>QUIZ</b> – Complete a Unit Circle
12/11	Thursday	7	<b>Review</b> <b>Homework</b> Unit Study Guide <b>QUIZ</b> – Complete a Unit Circle (best grade out of three attempts)
12/12	Friday	8	<b>Unit Test</b>