

## UNIT OF STUDY

Title: Unit 10 Length: 2 weeks Topic: <i>Coordinate Geometry and Transformations</i> Designer: D. Rye		Subject/Course: Sc Math  Grade: 9-12
<b>UNIT GOALS AND EXPECTATIONS</b>		
<b>IMPORTANT CONCEPTS/UNDERSTANDINGS</b> <ul style="list-style-type: none"> <li>Identify a function.</li> <li>Graph ordered pairs.</li> <li>Apply concepts and skills to use information in tables and bar graphs.</li> <li>Find ordered pairs from tables and equations.</li> <li>Use a function shown as a table or equation to solve problems.</li> <li>How to evaluate an algebraic function for specified values.</li> <li>How to graph a function given a table of values or by creating a table of values.</li> </ul>		<b>ESSENTIAL QUESTIONS:</b> <ul style="list-style-type: none"> <li>What are ordered pairs?</li> <li>What is a function?</li> <li>What is coordinate plane?</li> <li>How can a function represent a real world situation?</li> <li>How can a graph represent a real world situation?</li> </ul>
<b>STUDENT LEARNING EXPECTATIONS:</b>  CGT.5.G.5 Draw and interpret the results of transformations and successive transformations on figures in the coordinate plane.		
<b>SPECIFIC DECLARATIVE KNOWLEDGE – What I know</b> <ul style="list-style-type: none"> <li>Vocabulary words: coordinate plane, coordinate axes, origin, ordered pairs, function, bar graph, function notation.</li> <li>Identify a function.</li> <li>Define a coordinate plane.</li> <li>Identify polygons formed by the points.</li> </ul>		<b>SPECIFIC PROCEDURAL KNOWLEDGE – What I need to do</b> <ul style="list-style-type: none"> <li>Apply concepts and skills to use information in tables and bar graphs.</li> <li>Use grid to locate points in a quadrant from a problem.</li> <li>Write coordinates of points as an ordered pair.</li> <li>Write the names of polygons formed by points.</li> </ul>

<b>UNIT ASSESSMENTS</b> (Include tasks related to Dimensions 3 and 4 and Bloom's Taxonomy)	
Unit 10 Open Response (application)	
Traditional Assessments: <ul style="list-style-type: none"> <li>• Unit 10 Test</li> <li>• Unit 10 Quiz</li> </ul>	Other Evidence of Learning: <ul style="list-style-type: none"> <li>• Classroom</li> <li>• Teacher Observation</li> </ul>

ACTIVITIES AND LEARNING EXPERIENCES	Resources
<ul style="list-style-type: none"> <li>• Model coordinate graphing on board.</li> <li>• Games <a href="http://www.mathplaygroud.com">www.mathplaygroud.com</a> .</li> <li>• Guided practice.</li> <li>• Student lead board work.</li> </ul>	<ul style="list-style-type: none"> <li>• Calculator</li> <li>• Activity worksheets</li> <li>• Portfolio workbook</li> </ul>
Career Connections	
Chef, Engineering	