

### Corsica Stickney Curriculum Map

Subject: Mathematics Grade: 7th Unit 4 Module 8 Lesson 8.1,8.2,8.3,8.4		Teacher: Mr. Jason Broughton Duration: January	
Summary of unit: Students will be able to use proportions to solve real-world geometry problems.			
Stage 1 – Desired Results			
Standards:  7.G.1 Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.  7.G.2 Draw ... geometric shapes with given conditions. Focus on constructing triangles.  7.G.3 Describe the two-dimensional figures that result from slicing three dimensional figures,  7.G.5 Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations  7.RP.3 Use proportional relationships to solve multistep ratio ... problems.  7.EE.4a Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$ , where p, q, and r are specific rational numbers		Essential Questions:  How can you use scale drawings to solve problems?  How can you draw shapes that satisfy given conditions?  How can you identify cross sections of three dimensional figures?  How can you use angle relationships to solve problems?	
Language objective  Students will explain how to use scale drawings to solve problems.	Mathematical practices  MP.4 Model with mathematics.  MP.5 Use appropriate tools strategically	Integrate mathematical practice MP.4 This lesson provides an opportunity to address this Mathematical Practice standard. It calls for students to apply mathematics to problems arising in everyday life, society, and the workplace. Students use blueprint measurements to find actual measurements by using tables and	

## Corsica Stickney Curriculum Map

<p>Students will demonstrate how to draw shapes that satisfy given conditions.</p> <p>Students will demonstrate how to identify cross sections of three-dimensional figure</p> <p>Students will explain how to use angle relationships to solve problems</p>	<p>MP.2 Reason abstractly and quantitatively.</p>	<p>proportional reasoning. Then students use the scale of a scale drawing to find the actual measurements by writing and solving proportions. Finally, students learn how to take an object drawn to one scale and redraw it in another scale.</p> <p>MP.5 This lesson provides an opportunity to address this Mathematical Practice standard. It calls for students to select appropriate tools, including technology, protractors, and rulers, to solve problems. Students use geometry software to draw triangles given three side lengths. Students then use rulers and protractors to draw triangles given two angle measures and the included side length. In this way, students experience using tools to explore mathematical properties of geometric figures.s</p> <p>MP.2 This lesson provides an opportunity to address this Mathematical Practice standard. It calls for students to communicate mathematical ideas using multiple representations, including symbols and diagrams. Students use symbols and diagrams to represent angle relationships. They solve one-step and two-step equations relating to angle pairs and their relationships. In these ways, students have communicated the mathematical relationships between angle pairs.</p>
<b>Stage 2 – Assessment Evidence</b>		
<p>Performance Tasks: Homework quizzes, worksheet, Tests.</p>	<p>Unit Pre-Assessment: Assign ready-made or customized practice tests to prepare students for high-stakes tests</p>	

## Corsica Stickney Curriculum Map

<b>Stage 3 – Learning Plan</b>	
Learning Activities: procedures/topics Reading and discussing lesson with class. Giving students examples to be completed in class. Students taking notes and using notes to complete homework assignments.	
<b>Lesson Description</b>	
MODULE 8    Modeling Geometric Figures	
Lesson 8.1 Similar Shapes and Scale Drawings	
Lesson 8.2 Geometric Drawings	
Activity 8.2 Draw a Triangle	
Lesson 8.3 Cross Sections	
Lesson 8.4 Angle Relationships	