

**TEACHER EXCHANGE  
LESSON PLAN TEMPLATE**

Program:  
Instructor: Sheila Mitchell  
Course Title: Geometry

Date:							
Lesson Length:	50 minutes						
Topics:	dilations, scale factors, ratios						
<b>OVERVIEW/ANNOTATION:</b> An online tool ( <a href="http://www.ies.co.jp/math/products/geo1/applets/kakudai/kakudai.html">http://www.ies.co.jp/math/products/geo1/applets/kakudai/kakudai.html</a> ) will be used for exploration. Students will also construct dilations with given scale factors using a ruler.							
<b>BACKGROUND/PREPARATION:</b> Student will review solving ratios. They will also define dilation and scale factor.							
<b>PRIMARY LEARNING OBJECTIVES:</b> Students will understand the relationship of similarity between an image and preimage through dilation.							
<b>ESSENTIAL QUESTION(S):</b> What is the relationship of an image and its preimage through dilation?							
<b>MATERIALS, EQUIPMENT AND TECHNOLOGY RESOURCES</b>							
x	Textbook		Lab Manual		Video	Other	
	Adv. Committee		Posters		Multi-Media		
	Speaker	x	Supplemental Materials	x	Internet		
<b>CONTENT STANDARDS &amp; TASKS:</b> <i>Alabama Course of Study: Technical Education</i> Geometry: 14.b.) The dilation of a line segment is longer or shorter in the ratio given by the scale factor							
<b>PROCEDURES, ACTIVITIES, AND LEARNING EXPERIENCES</b>							
x	Individual work	x	Group Work	x	Lecture	Skills USA	
	Class Discussion		Project		Speaker	Live Work	
	Visuals	x	Review		Video		
x	Homework		Handout		Field Trip		
<b>ASSESSMENT STRATEGIES</b>							
x	Homework		Portfolio	x	Class Work	x	Test
x	Teacher Observation		Other:		Performance	x	Feedback from Discussion
<b>LESSON INSTRUCTION INCLUDES:</b>							
	Safety Instruction	x	Presentation		Higher Order Reasoning		
x	Project-Based Learning		Role Playing		Work Ethics		
	Integrated Academics	x	Simulation		Integrated CTSO Experiences		
	Employability Skills		Problem Solving Skills		Management Skills		
<b>TEAMWORK ACTIVITIES:</b>				<b>PROVISIONS FOR INDIVIDUAL DIFFERENCES:</b> The students will work in cooperative groups with mixed abilities.			
<b>AVAILABLE STUDENT INDUSTRY CREDENTIALS:</b>							
<b>COURSE/PROGRAM CULMINATING PROJECT:</b> Students will construct dilations using pencils, paper, and rulers.							