



ARCHITECTURE AND CONSTRUCTION CLUSTER

LESSON 1

Lesson Plan Title: Design and Layout		Instructor:
Suggested Total Time for Lesson (minutes): 135 minutes (3 days)		
Content Focus - What Will Students Learn? (Content Skill Sets)		
This lesson will provide students with an understanding of tool identification, usage, safety, and maintenance by drawing a tiny house. 0972.AR.1843.3 Use and Maintain measuring, layout, and marking tools (Lesson plan supports fundamental understanding).		
Materials and Resources- What do you need to assemble and prepare before the lesson?		
Materials: <ul style="list-style-type: none"> Marking Tools- Pencil or Marker Measuring Tools- Rule, Tape Measure, Framing, or Bench Square Layout Tools- Compass 		Resources: <ul style="list-style-type: none"> Reading a Tape Measure Easy as 123 https://www.youtube.com/watch?v=89NU3iefcAM How to read a ruler https://www.youtube.com/watch?v=KoD7CG6M9u4
Lesson Outline: What learning activities will your students do?		
Time	Sequence/Description of Learning Activity	
15 minutes	Get Started/Explain: Gather Students to an area with each tool, discuss: <ul style="list-style-type: none"> Tool identification, (Each student will need to understand the proper name of each tool.) Tool safety, (Students will have to understand that sharp points of tools are to be held away from themselves and others when carrying them. No Horseplay during activity.) Tool use and, (Understand how to use each tool, including the reading of a ruler, tape measure and square.) Tool maintenance (These tools require little maintenance; students need to know where the tools are to be stored when not in use.) 	
30 minutes 45 minutes 30 minutes	Discover/Engage/Practice: <ul style="list-style-type: none"> Students will learn the fundamentals of measurements and fractions from reading a tape measure and rule. Have students measure different objects in the classroom. Students will understand the basics of a framing or bench square and using it to draw angles Students will learn how to calculate sq footage Students will draw a tiny home by using all the tools in the materials list by drawing a 8-inch x 10-inch floor dimension house within 1/16th of an inch that will include at least 4 walls, a roof, windows, and a door. 	
15 minutes	Check for Understanding/Summarize/Close: Students drawing an 8-inch x 10-inch floor dimension house within 1/16th of an inch that will include at least 4 walls, a roof, windows, and a door. (A house with proportionate dimensions drawn.)	
Modifications, Support, and Extensions (for those students with IEP)		
Reflection- Did the students learn the content outlined in the lesson focus? Why or why not?		