

## USD 469 Lesson Plan

<b>Lesson Title</b>	Build your dream bedroom
<b>Created by</b>	Rhonda Lang
<b>Building</b>	LMS
<b>Grade Level</b>	7 <sup>th</sup> Grade
<b>Subject Area</b>	Math II and Math III
<b>Time</b> ( <i>Time frame for the lesson</i> )	5 days
<b>State Standards Addressed</b>	<p>7.3.3A3 determines the actual dimensions and/or measurements of a two-dimensional figure represented in a scale drawing</p> <p>7.1.4K2a-d performs and explains these computational procedures—adds, subtracts, multiplies, divides decimals</p> <p>7.2.2K7 know the mathematical relationship between ratios, proportions, and percents and how to solve for a missing term in a proportion with positive rational number solutions and monomials</p>
<b>Technology Equipment</b> <i>(list the equipment needed and what needs to be connected before the lesson begins. Also any instructions on connecting)</i>	Computer lab Microsoft word or excel Paint program internet
<b>Tips</b> <i>(Special instructions or information that will help the instructor be successful using the equipment. What the students need to know BEFORE the lesson? What do the teachers need to know before the lesson?)</i>	<p>*Students should have had their unit on add, subtract, multiply, and divide decimals as well as scale drawings and ratios/proportions. This unit could be used as a performance assessment for those 3 testable indicators.</p> <p>*Teachers need to know how to use the paint program to create a scale drawing of a bedroom.</p>
<b>Activity Type</b> <i>(list all that apply- Group activity, Cooperative learning, Research, Hands on, etc...)</i>	<p>Research: Students will measure their own rooms in feet in inches and draw a scale drawing of their room. They will need to come up with an appropriate scale for their drawing.</p> <p>Research: Students will then go to <a href="http://www.homedepot.com">www.homedepot.com</a> or <a href="http://www.target.com">www.target.com</a> to come up with prices for new carpet, paint, and any thing else they would like to do to their room.</p> <p>Students will be given a \$1,500 budget.</p> <p>Microsoft word: Students will come up with a spreadsheet or report with the costs of their items, showing unit rates of their items as well as the final cost using a proportion</p>
<b>Activity Context</b> <i>(Briefly describe how the activity fits into the context of the lesson. What will precede the activity? What will follow the activity? What do you want to accomplish by using the activity in your classroom)</i>	<p>Students will have been through drill and practice on these 3 indicators and this activity will give the true application of the indicators if the students can actually draw their own scale drawing, use unit prices to set up proportions to find total costs and actually hit the area and perimeter indicators that are also tested.</p>

<b>Additional Materials/Resources</b> <i>(Handouts)</i>	List of websites: <a href="http://www.target.com">www.target.com</a> , <a href="http://www.homedepot.com">www.homedepot.com</a>
<b>Extension Activities/Follow up</b> <i>(What do you do next? How do you know it was successful? Other activities to do. )</i>	Students can design their own house, playground, skateboarding ramps, etc... using scale drawings and finding costs of items. Students can also trade papers and check actual dimensions of each others rooms to see if the scale is right and appropriate.