



# ARCHITECTURE AND CONSTRUCTION CLUSTER

## LESSON 3

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| <b>Lesson Plan Title:</b> Floor, Wall, and Roof Systems  |  | <b>Instructor:</b>   |
| <b>Suggested Total Time for Lesson (minutes):</b> 135 minutes (3 days)   |  |  |
| <b>Content Focus - What Will Students Learn? (Content Skill Sets)</b>  |  |  |
| <p>Students will be asked to construct a model Tiny Home, not to exceed 12 inches wide, 16 inches long, and 14 inches high. (Lesson plan supports fundamental understanding in the support of home construction)</p> <p>0972.AR.1843.4 Layout foundation forms<br/>           0972.AR.1843.8 Demonstrate understanding of floor systems<br/>           0972.AR.1843.9 Demonstrate understanding of wall systems<br/>           0972.AR.1843.10 Demonstrate understanding of roof systems</p> |  |  |
| <b>Materials and Resources- What do you need to assemble and prepare before the lesson?</b>  |  |  |
| <b>Materials:</b> <ul style="list-style-type: none"> <li>• Pencil</li> <li>• Marker</li> <li>• Foam Board or Cardboard</li> <li>• Scissors</li> <li>• Hot Glue Gun</li> <li>• Duct Tape</li> <li>• Popsicle Sticks</li> </ul>  |  | <b>Resources:</b> <ul style="list-style-type: none"> <li>• <a href="#">Cardboard House Very Simple   How to Make a House Out of Cardboard   DIY Cardboard House Model - Bing video</a></li> <li>• <a href="#">DIY Simple Miniature House - Miniature Model - Bing video</a></li> </ul> |
| <b>Lesson Outline: What learning activities will your students do?</b>   |  |  |
| <b>Time</b>  | <b>Sequence/Description of Learning Activity</b>   |  |
| 15 minutes   | <b>Get Started/Explain:</b><br>Students will be asked to construct a home from foam board or cardboard, not to exceed 12 inches wide, 16 inches long, and 14 inches high, using a blueprint or floorplan previously designed by the student on grid paper. <ul style="list-style-type: none"> <li>• Deconstruct cardboard boxes.</li> <li>• Have students use previously designed blueprint or floorplan.</li> <li>• Construct a model foam board or a cardboard tiny home.</li> </ul>   |  |
| 30 minutes<br>45 minutes<br>30 minutes   | <b>Discover/Engage/Practice:</b> <ul style="list-style-type: none"> <li>• Explain to the students that they will be building their own model house.</li> <li>• Students will draw the outline of the house on cardboard pieces, making sure to use proper tools for measuring and marking.</li> <li>• Students will cut along the lines drawn</li> <li>• Fold the foam board or cardboard accordingly to make the house</li> <li>• Secure the edges with tape</li> <li>• Assemble all parts of the house with hot glue or tape</li> <li>• Decorate the house to your personal taste</li> </ul> |  |
| 15 minutes   | <b>Check for Understanding/Summarize/Close:</b><br>A foam board or cardboard model house is constructed that does not to exceed 12 inches wide, 16 inches long, and 14 inches high.  |  |
| <b>Modifications, Support, and Extensions (for those students with IEP)</b>  |  |  |
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| <b>Reflection- Did the students learn the content outlined in the lesson focus? Why or why not?</b>  |  |  |
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