



**Session Title:** Design a Scale Model of Your Ideal Study Space

**Grade Level:** 3<sup>rd</sup> – 6<sup>th</sup> Grade

**Focus:** Art

**Objectives:** As a result of this lesson, the student will:

- Watch “What’s So Cool About Manufacturing” videos that demonstrate history and manufacturing.
- Use their creativity and imagination to create their own artwork.
- Make their own scale model of their ideal study space.
- Follow instructions to create a finished product Journal their discoveries and lingering questions.

PA Standards	
<b>Career Education and Work</b>	<ul style="list-style-type: none"> <li>• 13.1.3. A Recognize that individuals have unique interests.</li> <li>• 13.1.3. B Identify current personal interests.</li> <li>• 13.1.3. C Recognize that the roles of individuals at home, in the workplace and in the community are constantly changing.</li> <li>• 13.1.3. D Identify the range of jobs available in the community.</li> <li>• 13.1.3. E. Describe the work done by school personnel and other individuals in the community.</li> <li>• 13.1.3. F. Explore how people prepare for careers.</li> <li>• 13.1.3. G. Explain why education and training plans are important to careers.</li> <li>• 13.1.3. H. Explain how workers in their careers use what is learned in the classroom.</li> <li>• 13.1.3. E. Discuss the importance of the essential workplace skills, such as, but not limited to: Dependability, Health/safety, Team building, Technology.</li> <li>• 13.3.3. A. Identify attitudes and work habits that contribute to success at home and school.</li> <li>• 13.3.3. C. Explain effective group interaction terms, such as, but not limited to: Compliment, Cooperate, Encourage, Participate.</li> </ul>
<b>Art</b>	<ul style="list-style-type: none"> <li>• Know and use traditional and contemporary technologies for producing, performing and exhibiting works in the arts or the works of others (9.1.3.J).</li> <li>• Recognize that choices made by artists regarding subject matter and themes communicate ideas through works in the arts and humanities (9.4.3. D).</li> <li>• Know how to communicate an informed individual opinion about the meaning of works in the arts (9.4.3.B).</li> <li>• Know how to recognize and identify similar and different characteristics among works in the arts (9.3.3.F).</li> <li>• Explain meanings in the arts and humanities through individual works and the works of others using a fundamental vocabulary of critical response.9.3.3. D).</li> <li>• Know that works in the arts can be described by using the arts elements, principles and concepts (9.3.3. B).</li> </ul>
<b>Artifact Opportunity</b>	<ul style="list-style-type: none"> <li>• The Journal Worksheet can be used as an artifact.</li> </ul>
<b>Videos</b>	<ul style="list-style-type: none"> <li>• Downingtown – Lasko Products <a href="http://www.whatssocool.org/previous-contests/chester-delaware-2019/">www.whatssocool.org/previous-contests/chester-delaware-2019/</a></li> <li>• RAUB – Crayola <a href="http://www.whatssocool.org/previous-contests/lehigh-valley-2019/">www.whatssocool.org/previous-contests/lehigh-valley-2019/</a></li> <li>• Northeast - Just Born Quality Confections <a href="http://www.whatssocool.org/previous-contests/lehigh-valley-2019/">www.whatssocool.org/previous-contests/lehigh-valley-2019/</a></li> </ul>



- Tamaqua Area - Bartush Signs [www.whatssocool.org/previous-contests/berks-schuylkill-2019/](http://www.whatssocool.org/previous-contests/berks-schuylkill-2019/)Pittsburgh SciTech - Aero Tech Designs: [https://www.youtube.com/watch?time\\_continue=67&v=QeqUic\\_vJrM](https://www.youtube.com/watch?time_continue=67&v=QeqUic_vJrM)

## Lesson Plan

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### Materials Needed

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| <input type="checkbox"/> Cardstock               | <input type="checkbox"/> Paint Chips, wallpaper samples, construction paper, recycled magazines, etc. (optional) |
| <input type="checkbox"/> Coloring pencils        | <input type="checkbox"/> Journal Worksheet   |
| <input type="checkbox"/> Scissors                | <input type="checkbox"/> Internet access   |
| <input type="checkbox"/> Glue                    | <input type="checkbox"/> "What's So Cool About Manufacturing?" videos  |
| <input type="checkbox"/> Tape                    |  |
| <input type="checkbox"/> Molding clay (optional) |  |

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### Prior Knowledge

**Overview:** Design and aesthetic is an important part of the manufacturing process. We use our own creativity to design and create a scale model of the ideal study space. Students can create their own scale models using cardstock and coloring pencils.

### Procedures and Activities

#### Guiding Questions:

- What is manufacturing?
- How might art be used in manufacturing?
- Why is design and art important to manufacturing?
- What is your ideal study space? What will it include?
- How many diverse types of study spaces were created?
- What makes your study space comfortable?
- Why do we need different kinds of designs in the market?
- What other products are manufactured?

#### Directions:

**Step 1:** Provide materials to students to create their own scale model. Each scale model should have at least one wall (can have two for a more stable structure), one piece of furniture, and a floor base.

**Step 2:** Design and create a scale model.

**Step 3:** Use glue and tape to secure the scale model.

**Step 4:** Add patterns or designs with coloring pencils and other optional provided materials.

**Step 5:** Add finishing touches to your artwork!

**Step 6:** Culminating Activity:

Students will:

- Journal their discoveries
- Journal what they liked or disliked about the activity/their artwork
- Revisit the guiding questions
- Journal any remaining questions they have about the activity and manufacturing



## Journal Worksheet

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Sketch a draft  
of your design

Sketch a draft of your design	
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<p><b>Journal any remaining questions about the activity and manufacturing</b></p>	
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<p><b>Photo of final product:</b></p>
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