Unit 4 - Design Thinking & Creating

Content Area: **Arts**
Course(s): **Wood Arts Tec 1**
Time Period: **Semester 2**
Length: **3 Weeks**
Status: **Published**

Standards

1.5.2.Cr1b	Engage in individual and collaborative art making through observation and investigation of the world, and in response to personal interests and curiosity.
9.4.2.CT.2	Identify possible approaches and resources to execute a plan (e.g., 1.2.2.CR1b, 8.2.2.ED.3).
1.5.2.Cr2a	Through experimentation, build skills and knowledge of materials and tools through various approaches to art making.
1.5.2.Cr2b	Demonstrate safe procedures for using and cleaning art tools, equipment and studio spaces.
8.2.2.ED.1	Communicate the function of a product or device.
8.2.2.ED.3	Select and use appropriate tools and materials to build a product using the design process.
9.4.2.TL.6	Illustrate and communicate ideas and stories using multiple digital tools (e.g., SL.2.5.).
8.2.2.ITH.3	Identify how technology impacts or improves life.

Essential Questions

1. What tools or machines can be used to accomplish the same goal?

2. What product could you create the solves a problem in your life?

3. What are safe practices in the shop?

Enduring Understandings

1. A product should be designed to solve a problem that improves life and minimizes negative impacts on society.

2. The creation process requires experimentation and practice while demonstrating safety and etiquette for the workspace and others.

3. Woodworking is an Art where personal interest and curiosity can lead to endless possibilities.

Knowledge & Skills

Design Thinking & Creating Students will be able to:

- Choose and design a product that they will create using digital tools.
- Experiment with tools and machines to make design choices.
- Safety use tools and machines.
- Design and create a product with a specific purpose in their life.
- Evaluate the impact of the product on our world.
- Identify multiple tools to accomplish the same process.

Machines and Tools:

- Jointer
- Table Saw
- Scroll Saw
- Hand-held Router
- Lathe
- CNC Machine

Resources

Resources:

- Lumber
- Hand Tools
- Machines
- Sandpaper
- Finish
- Hardware

Transfer Goals

1. Students will be able to explain how multiple machines can accomplish the same goal when creating.

2. Students will be able to create a product that has minimal negative impacts on society and is designed for a specific purpose to improve the quality of life.

Modifications

Modifications

Assessments

Assessments