Wood Arts Honors - Unit 4 - Advanced Wood Processing

Content Area: **Arts**
Course(s): **Wood Arts Tech3**
Time Period: **Semester 1**
Length: **Year**
Status: **Published**

Student Learning Standards:

- Standard 9.3.8.B.3: Apply appropriate techniques for cutting, shaping, and joining wood to create woodworking projects.
- Standard CS.K–12.3.4.1.A: Utilize computer-aided manufacturing (CAM) software to generate tool paths for CNC woodturning machines.
- Standard 1.3.8.A: Explore and manipulate wood as a sculptural medium in the context of woodturning.
- Standard 1.3.8.B: Create wood turned objects that demonstrate technical skill and conceptual intent.

Enduring Understandings:

1. Students will understand that effective wood processing relies on mastering specific techniques and developing precise skills for accurately cutting, shaping, and joining wood.
2. Students will understand that wood can be explored and manipulated as a versatile sculptural medium, particularly through the specialized craft of woodturning.
3. Students will understand that the deliberate application of various wood processing techniques, from fundamental cutting to advanced sculptural manipulation like woodturning, allows for the transformation of raw material into both functional and artistic forms.

Essential Questions:

1. How do the specific techniques for cutting, shaping, and joining wood contribute to the successful completion and integrity of woodworking projects?
2. In what ways can wood be manipulated and transformed as a sculptural medium, particularly through processes like woodturning, to achieve artistic and functional forms?
3. How does the deliberate application of various wood processing techniques, from foundational cuts to advanced sculptural methods, allow for the creative transformation of raw material into finished pieces?

Knowledge & Skills:

- Proficiency in appropriate techniques for cutting, shaping, and joining wood in woodturning.
- Competency in utilizing CAM software to generate tool paths for CNC woodturning machines.
- Exploration and manipulation of wood as a sculptural medium in wood processing.
- Creation of wood turned objects that demonstrate technical skill and conceptual intent.

Resources:

- Manuals and guides for woodturning techniques and tools.
- CAM software for generating tool paths for CNC woodturning machines.
- Art resources for exploring and manipulating wood as a sculptural medium in woodturning.

Transfer Goals:

1. Apply appropriate techniques for cutting, shaping, and joining wood in woodturning projects.
2. Explore and manipulate wood as a sculptural medium in the context of woodturning.

Assessments

Assessments

Modifications

Modifications