

Unit 1: Safety

Content Area: **Applied Technology**
Course(s):
Time Period: **Marking Period 1**
Length: **ongoing**
Status: **Published**

Brief Summary of Unit

Students will learn the importance of using appropriate personal protection devices such as safety glasses, dust masks, and gloves according to the regulations provided by OSHA and as specified on the MSDS (material safety data sheet) for finishing substances while working in the shop. They will learn about procedures to follow in the event of a personal injury or injury of a fellow student. Students will learn how to safely handle power machinery, hand tools, and finishing substances in the woodworking shop. They will understand that their safety and the safety of others depend on every individual being alert and safety conscious at all times. They will also learn that proper disposal of waste materials as specified by the EPA is essential to the safety of people and the environment. Students will learn that highly specialized techniques used in Advanced Woods will require more sophisticated safety procedures beyond what they have used in woodworking 1 and 2 levels.

Standards

12.9.3.MN.4	Describe career opportunities and means to achieve those opportunities in each of the Manufacturing Career Pathways.
LA.RST.11-12.2	Determine the central ideas, themes, or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.
LA.RST.11-12.4	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11-12 texts and topics.
LA.RST.11-12.7	Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.
LA.11-12.CCSS.ELA-Literacy.CCRA.RL.1	Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.
TECH.8.1.12	Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate and to create and communicate knowledge.
TECH.8.2.12	Technology Education, Engineering, Design, and Computational Thinking - Programming: All students will develop an understanding of the nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.

Transfer

- • Develop a safety conscious.
- • Develop safety habits for everyday life usage.
- • Safely use power tools and hand tools at home as well as in the shop environment.

- EPA and OSHA regulations
- eye safety
- gloves
- internet .
- Material Data Sheets
- poster paper
- push sticks
- Textbook Modern Cabinet Making Goodheart-Wilcox

Suggested Strategies for Modifications

- • additional time on task
- • alternative outcome options
- • assessment based on individual development in the area of study
- • audio tape of instruction
- • cooperative learning groups
- • handouts of notes, procedures, processes, diagrams, etc.
- • images and visual aids
- • one-to-one instruction and assistance
- • preferential seating
- • reading material modified to student level
- • revised techniques, use of tools and media in hands-on activity
- • study partners
- • testing materials appropriate to student level