



Iowa 4-H After School Program
Woodworking, Lesson Plan
Five, 40- 60 minute sessions

Grades: 7–8 (or experienced woodworkers)

Optimum Group Size: 15

Supplies Needed: tools, wood scraps, safety supplies

Advance Preparation Needed: Gather tools and safety supplies

Reference Resources (Available from your local County Extension Office):

4-H Skills for Life Woodworking Series: Group Activity Helper's Guide

4-H Cooperative Curriculum System, 4HCCS 6879

Woodworking Wonders – Level 1: Measuring Up

4H Cooperative Curriculum System, 4HCCS BU-06875

4-H Skills for Life Woodworking Series: Making the Cut, Level 2

4H Cooperative Curriculum System, 4HCCS 6876

Physical Setting:

- A woodworking shop with tools and sturdy tables and storage space will be needed.
- A ratio of one adult for every 6 youth is recommended for this program, and possibly extras for the measuring and cutting activities.

Life Skills Addressed:

- Communicating with others
- Planning and organizing
- Solving problems
- Learning to learn
- Making decisions

Indicators:

- Youth should be able to identify basic safety equipment and use them appropriately
- Youth should complete a woodworking project from rough wood to finished product.

Woodworking Skill Addressed:

- Tool Identification
- Safety Procedures
- Measuring, cutting, drilling, assembling with glue and screws, finishing

Related School Standards and Benchmarks:

Thinking and Reasoning Standards:

- Understands and applies basic principles of logic and reasoning.
- Effectively uses mental processes that are based on identifying similarities and differences.

Evaluation:

The Right Tool, pg. 5, Making The Cut, level 2, used as a pre-test and post-test.

Time Allotment	Activity	Supplies
DAY 1		
10 minutes	The Right Tool, pg. 5, Making The Cut, level 2. <ul style="list-style-type: none"> This can be used as a pre-test/post-test. As a pre-test, have youth complete before discussing as a group. 	Pencils, catalogs
10 minutes	Safety First on Broadway, Making the Cut, level 2. <ul style="list-style-type: none"> Discuss with youth the safety concerns when working with tools, using the information on Pages 6-7. Let youth try on their safety equipment and store them in a safe place to use later. 	Safety supplies for youth: safety glasses, earplugs, dust mask, storage bin. Poster with safety rules to be posted for each session.
30 minutes	More About Wood, Pages 16 – 17, Group Activity, Helper’s Guide. <ul style="list-style-type: none"> In addition, using information from pages 12-15, Making the Cut, discuss points on different types of wood. 	Tree samples, individual cards, pictures of products made from trees
10 minutes	Recreation Idea: <ul style="list-style-type: none"> Woodworking Bingo, pages 12 – 13, Group Activity Helper’s Guide 	
DAY 2		
10 minutes	<ul style="list-style-type: none"> Review safety supplies and tools that were discussed on the first day. 	
30 - 40 minutes	<ul style="list-style-type: none"> Using the safety rules, Have youth work in pairs to begin working on their foot stool (Page 34, Making the Cut). Each youth should follow the plans as described in the book and referring to Pages 16 – 24 and make their own stool, Making the Cut as needed to get them started. 	Napkin/letter holder kits (pre-cut and drilled pieces) Sandpaper Nails Hammer Wood glue Safety supplies
DAY THREE		
10 minutes	Review previous two days.	
10 - 20 minutes	<ul style="list-style-type: none"> Using info from pages 26 – 28, Making the Cut, discuss pointers on finishing the project. Practice if you feel it is needed. 	
20 - 30 minutes	<ul style="list-style-type: none"> Using the safety rules, have youth continue working on their Foot Stool (Page 34, Making the Cut). Some youth might be ready to start the finishing process discussed earlier in this session. 	Wood for foot stools Sandpaper Nails Hammer Wood glue Tack clothes Paint brushes Paint

Time Allotment	Activity	Supplies
		Drop clothes Safety supplies
10 minutes	Recreation Idea: <ul style="list-style-type: none"> • Playing Woodworking Pyramid, Page 26, Group Activity Helper's Guide. • Have youth play game using types of tools and/or safety supplies as a topic. 	
DAY 4		
10 minutes	<ul style="list-style-type: none"> • Review previous days. 	
20 - 30 minutes	<ul style="list-style-type: none"> • Using the safety rules, have youth complete work on their Foot Stool (Page 34, Making the Cut). 	
5 minutes	Post-Test Option: <ul style="list-style-type: none"> • Have youth complete The Right Tool, pg. 5, Making The Cut, level 2 	
10 minutes	<ul style="list-style-type: none"> • Invite parents to come early for Show & Tell Time: • Have youth show their woodworking project to the group and tell what they learned from building it and what they enjoyed doing the most. 	
DAY 5		
30–60 minutes	<ul style="list-style-type: none"> • Touring a Lumberyard, Page 14-15, Group Activity Helper's Guide 	

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