



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

**Grades:** 4–6 (or beginning woodworkers)

**Optimum Group Size:** 15

**Supplies Needed:** tools, wood scraps, safety supplies

**Advance Preparation Needed:**

- Prepare tool picture cards and name cards
- Gather tools and safety supplies
- Have Napkin or letter holder supplies precut and drilled

**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

**Physical Setting:**

- An easy to clean room with plenty of space, light, and ventilation for youth to work safely.
- Sturdy tables and storage space will be needed.
- A ratio of one adult for every 4 youth is recommended for this program.

**Life Skills Addressed:**

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

**Indicators:**

- Youth should be able to identify basic woodworking tools and their uses
- Youth should be able to identify basic safety equipment and use them appropriately
- Youth should complete a simple woodworking project

**Woodworking Skill Addressed:**

- Tool Identification, Safety Procedures, Measuring, Nailing, Sawing, Gluing, Sanding, Painting

**Related School Standards and Benchmarks:**

Life Work Standards:

1. Makes effective use of basic tools.

Thinking and Reasoning Standards:

2. Understands and applies basic principles of logic and reasoning.

**Evaluation:**

- Name the Tools, Page 8, Measuring Up – Use as pre-test on first day and post-test on the last day.

Time Allotment	Activity	Supplies
<b>DAY 1</b>		
10 minutes	Name the tools, pg. 8, Measuring Up, level 1. <ul style="list-style-type: none"> <li>• This can be used as a pre-test/post-test. As a pre-test, have youth complete before doing the variation.</li> <li>• Variation: Use attached forms to print off cards with tools and names. Give one card to each youth and have them find their partner, matching the tool to the name.</li> </ul>	Cards with tool pictures and names prepared ahead of time. Samples of tools to show youth.
10 minutes	Safety is no Accident, Measuring Up, level 1. <ul style="list-style-type: none"> <li>• Discuss with youth the safety concerns when working with tools, using the information on Pages 10- 11.</li> <li>• Let youth try on their safety equipment and store them in a safe place to use later.</li> </ul>	Safety supplies for youth: safety glasses, earplugs, dust mask, storage bin. Poster with safety rules to be posted for each session.
40 - 45 minutes	Practice with tools, Pages 15 – 24, Measuring Up, level 1. <ul style="list-style-type: none"> <li>• With close adult supervision and reminders of the safety rules, have youth practice using the tools that they have just learned about.</li> <li>• Stations could be set up for youth to move through with adults giving instructions at each station.</li> </ul>	Wood scraps, tools from first activity, nails, safety supplies
10 minutes	Recreation Idea: <ul style="list-style-type: none"> <li>• Have youth play charades, acting out the usage of one of the tools or safety supplies that were discussed during this session.</li> </ul>	
<b>DAY 2</b>		
10 minutes	<ul style="list-style-type: none"> <li>• Review safety supplies and tools that were discussed on the first day.</li> </ul>	
10 - 20 minutes	<ul style="list-style-type: none"> <li>• Using info from pages 25 – 30, discuss pointers on gluing and sanding.</li> <li>• Practice if you feel it is needed.</li> </ul>	
20 - 30 minutes	<ul style="list-style-type: none"> <li>• Using the safety rules, have youth divide into pairs and begin working on their Napkin/Letter Holder (Page 34, Measuring Up).</li> <li>• Have the pieces pre-cut, so that youth can begin with sanding the boards and assembling by nailing.</li> <li>• They will need help holding the pieces when they are nailing.</li> </ul>	Napkin/letter holder kits (pre-cut and drilled pieces) Sandpaper Nails Hammer Wood glue Safety supplies

<b>Time Allotment</b>	<b>Activity</b>	<b>Supplies</b>
10 minutes	Recreation Idea: <ul style="list-style-type: none"> <li>• Playing Woodworking Pyramid, Page 26, Group Activity Helper's Guide.</li> <li>• Have youth play game using types of tools and/or safety supplies as a topic.</li> </ul>	
<b>DAY 3</b>		
10 minutes	<ul style="list-style-type: none"> <li>• Review previous two days.</li> </ul>	
10 - 20 minutes	<ul style="list-style-type: none"> <li>• Using info from pages 29 – 32, discuss pointers on finishing the project.</li> <li>• Practice if you feel it is needed.</li> </ul>	
20 - 30 minutes	<ul style="list-style-type: none"> <li>• Using the safety rules, have youth continue working on their Napkin/Letter Holder (Page 34, Measuring Up).</li> <li>• Have the pieces pre-cut, so that youth can begin with sanding the boards and assembling by nailing and gluing.</li> <li>• Some youth might be ready to start the finishing process discussed earlier in this session.</li> </ul>	Napkin/letter holder kits (pre-cut and drilled pieces) Sandpaper Nails Hammer Wood glue Tack clothes Paint brushes Paint Drop clothes Safety supplies
<b>DAY 4</b>		
10 minutes	<ul style="list-style-type: none"> <li>• Review previous days.</li> </ul>	
20 - 30 minutes	<ul style="list-style-type: none"> <li>• Using the safety rules, have youth complete work on their Napkin/Letter Holder (Page 34, Measuring Up).</li> <li>• Have the pieces pre-cut, so that youth can begin with sanding the boards and assembling by nailing and gluing.</li> <li>• Some youth might be ready to start the finishing process discussed earlier in this session.</li> </ul>	Napkin/letter holder kits (pre-cut and drilled pieces) Sandpaper Nails Hammer Wood glue Tack clothes Paint brushes Paint Drop clothes Safety supplies
5 minutes	Post-Test Option: <ul style="list-style-type: none"> <li>• Have youth complete Name the Tools activity on Page 8, Measuring Up</li> </ul>	
10 minutes	<ul style="list-style-type: none"> <li>• Invite parents to come early for Show &amp; Tell Time:</li> <li>• Have youth show their napkin/letter holders to the group and tell what they learned from building it and what they enjoyed doing the most.</li> </ul>	
10 minutes	<ul style="list-style-type: none"> <li>• Have youth and parents use one of the recreation ideas as a family.</li> </ul>	

Time Allotment	Activity	Supplies
<b>DAY 5</b>		
30 – 60 minutes	<ul style="list-style-type: none"> <li data-bbox="516 237 1105 336">• Tour a Lumberyard, cabinetry shop, etc. or invite a carpenter to come and speak, Page 14-15, Group Activity Helper’s Guide</li> </ul>	

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