**4-H Woodworking Project**

Woodworking's usefulness can be applied to many areas of life through learning how to safely use tools to build with wood. The woodworking project teaches the full scope of constructing a wood piece from design to completion.

- Learn how to use tools correctly and safely
- Design your project, including all steps from start to finish
- Develop a materials list
- Select wood suited for your project
- Use of hand and power tools to cut, shape, join and sand your wood

The activities above are ideas to inspire further project development. This is not a complete list.

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### Starting Out

**Beginner**

- Tool use; Hand tools, miter box cuts with a hand saw, drill press and scroll saw
- Wood is milled from specific parts of trees
- Use tree limbs and sticks to build a miniature tree house with glue guns

### Learning More

**Intermediate**

- Identify safety hazards in tool use
- Tool use; planer, scroll saw, band saw, drill press, circular saw for rip cuts and cross cuts, and plate joiner, router
- Soft and hard woods and how that effects cutting, shaping, and sanding
- Scroll saw puzzle projects

### Exploring Depth

**Advanced**

- Tool use; dovetail jigs, lathe and turning tools, power miter saws
- Encourage member’s own design, draw it out, dimensions, materials list, cut list, step-by-step
- Explore turning, joinery, and finishing techniques such as parting, dovetailing, finger joints, dyeing,

**4-H THRIVE**

**Help Youth:**

**Light Their Spark**

A spark is something youth are passionate about; it really fires them up and gives them joy and energy. Help youth find how this project excites them.

**Flex Their Brain**

The brain grows stronger when we try new things and master new skills. Encourage youth effort and persistence to

**Reach Their Goals**

Help youth use the GPS system to achieve their goals.

**Goal Selection:** Choose one meaningful, realistic and demanding goal.

**Pursue Strategies:** Create a step-by-step plan to make daily choices that support your goal.

**Shift Gears:** Change strategies if you’re having difficulties reaching your goal.

**Reflect**

Ask project members how they can use their passion for this project to be more confident, competent and caring. Discuss ways they can use their skills to make a contribution in the
Expand Your Experiences!

Science, Technology, Engineering, and Mathematics

- Take a wood planer apart and put it back together to see how it is engineered
- Using a variable speed lathe, turn a piece of wood with a turning tool using different speeds from slow to fast and see how it effects the look of the wood

Healthy Living

- Build a balance board and keep it in your living room to help strengthen your legs and maintain good balance
- Think out the whole process of construction and calculating dimensions which

Citizenship

- Build bird feeders to put around your local senior housing
- Build large raised vegetable planters for your school’s lunch program
- Volunteer to build with Habitat for Humanity

Leadership

- Be a Junior or Teen Leader for the Woodworking project
- Lead a “Build It” day for your club members – choose something fun for everyone to build and incorporate teaching shop safety in to the day

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<thead>
<tr>
<th>Connections &amp; Events</th>
<th>Curriculum</th>
<th>4-H Record Book</th>
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<tbody>
<tr>
<td>Presentation Days – Share what you’ve learned with others through a presentation.</td>
<td>National 4-H Curriculum at 4hmall.org – Woodworking Curriculum is good for beginners</td>
<td>4-H Record Books give members an opportunity to record events and reflect on their experiences. For each project, members document their experiences, learning and development.</td>
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<td>Field Days – At these events, 4-H members may participate in a variety of contests related to their project area.</td>
<td>Making the cut</td>
<td>4-H Record Books also teach members record management skills and encourage them to set goals and develop a plan to meet those goals.</td>
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<td>Contact your county 4-H office to determine additional opportunities available, such as a field day.</td>
<td>Nailing it together</td>
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<td></td>
<td>Measuring Up</td>
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<td>Finishing Up</td>
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<td>Helper’s Guide</td>
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<td>4-H Wood Science from OSU extension.oregonstate.edu/catalog/4h/4-h4421a.pdf</td>
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Resources

- Fine Wood Working
  Finewoodworking.com
- Inside Woodworking
  www.insidewoodworking.com
- Museum of Woodworking Tools
  http://www.antiquetools.com/
- WoodNet
  http://www.woodnet.net/
- Woodworking Safety
  4-H Clover Safety Notes for using tools and equipment
  safety.ucanr.org/4-H_Resources/
  Clover_Safe_Notes_by_Project_Area/
- Fine Wood Working Safety

PHOTO
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