Are You Into It?

Woodworking is a valuable skill for a hobby, household repairs or even a career. Learn about types of wood, uses for various kinds of wood, how to make connections and joints, safety tips, common tools and project ideas from the very simple to the impressive.

- Develop an understanding of fiber products from the forest.
- Develop skills in the selection and uses of various types of wood and wood products.
- Develop skills in the selection, care, and safe use of woodworking technologies including tools and machines.
- Learn about and develop responsible attitudes toward the science, engineering, technology and math behind the woodworking process.
- Learn about environmental protection and the wise use of natural resources.
- Develop problem solving and logical reasoning skills.
- Gain experience in problem solving and decision-making using science process skills.

Here’s what you can do all year!

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<td>Identify tools and needs for your work area</td>
<td>Learn how to use the right hand tools</td>
<td>Discover joining, clamping and connecting techniques</td>
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<td>Learn safety rules, tool safety settings and how to use safety gear</td>
<td>Determine which woods are good for a product</td>
<td>Using stain to emphasize the grain of wood</td>
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<td>Identify what different woods look and feel like</td>
<td>Learn to measure and cut angles</td>
<td>Understand difference between wood, laminates and veneers</td>
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<td>Understand how to use a variety of hand tools</td>
<td>Learn the importance of proper sanding and finish application</td>
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<td>Learn how to connect wood using glue and nails</td>
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<td>Explore woodworking careers and entrepreneurial opportunities</td>
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<td>Finish wood projects by sanding and painting</td>
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Step It Up!

Pass it on! Now that you know how, share it with others. Here are ideas to get you started.

**Communication**

- Conduct a wood finishing seminar
- Prepare an exhibit that explains types of wood and best applications for each
- Give a safety demonstration for safe woodworking tool usage
- Develop an exhibit comparing different wood finishes

**Citizenship**

- Build a bird feeder for a neighbor
- Build toys out of wood for a homeless shelter
- Make a bench and donate it to charity
- Join a Habitat for Humanity build

**Leadership**

- Conduct a basic building workshop for a younger club
- Organize your club to assist older community members winterize their home
- Be a project helper for younger members in woodworking

Learn more at www.extension.iastate.edu/4h/projects/woodworking or contact your county ISU Extension Office
Take Woodworking further!

Here are other opportunities to explore woodworking:

- Contact your local County Extension Office for local woodworking workshops, activities, or events [http://www.extension.iastate.edu/content/county-offices]
- Visit a cabinet making business to see how they apply what you’ve learned in their craft
- Use online resources to learn advanced techniques
- Explore local woodworking groups and shows to find ways to connect and learn more
- Visit your local community college to learn about woodworking careers and degrees
- Meet others interested in woodworking? Check out camps and the Iowa 4-H Center. [http://www.extension.iastate.edu/4h/camping]
- Use your wood working skills to engineer a solution to a problem at home. Enter your design in a local science fair or the State Science + Technology Fair of Iowa. [http://www.sciencefairiofowa.org/]
- Is it county fair time? Consider taking an exhibit, a piece of your project learning to the fair for judging and to show off what you have learned. It might get selected to go to the Iowa State Fair. [http://www.extension.iastate.edu/4h/statefair]
- Attend Iowa 4-H Youth Conference and participate in workshops, motivational speakers and a community service project, bringing ideas back to your community. [http://www.extension.iastate.edu/4h/StateConference/]
- Interested in a college education in the area of woodworking, architecture, industrial technology or engineering? Schedule a visit with Iowa State University to explore those majors. [www.iastate.edu]

Resources

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<td>Hardwood Information [<a href="http://www.hardwoodinfo.com/">www.hardwoodinfo.com/</a>]</td>
<td>• 4-H Yearly Summary (4H 0096)</td>
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<td>Online woodworking resources [<a href="http://www.woodnet.net">www.woodnet.net</a>]</td>
<td>• Basic 4-H Project Record (4H 0096A)</td>
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<td>Woodworker’s Central [<a href="http://www.woodworking.org/">www.woodworking.org/</a>]</td>
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<td>Woodworking Industry Information [<a href="http://www.woodweb.com/">www.woodweb.com/</a>]</td>
<td>• Recordkeeping Self-Evaluation (4H 98, PDF)</td>
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Exhibit Ideas

- Make and finish a piece of furniture
- Build a tack box for your show animal project
- Make a toy train set out of wood
- Build a birdhouse or feeder
- Build a doghouse
- Make a design for something you would like to build - a table, a cabinet, or even a small building
- Create a poster on safety precautions when working with wood and tools
- Develop an exhibit on woodworking tool(s) and what they are used for
- Make an exhibit on various wood fasteners, where they would be used and why
- Create an exhibit on various woodworking techniques
- Make an exhibit evaluating the merits of different joinery
- Develop an exhibit on furniture repair
- Make an exhibit on “green” woodworking and sustainable wood types
- Create an exhibit comparing wood to synthetic replacements

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