



**COLORADO STATE UNIVERSITY  
EXTENSION**

# 4-H Woodworking



If you enjoy working with wood and using tools to build things, then this is the project for you. Can you see yourself someday building a table, wood toy or a chair? As a beginning woodworker, you can build many objects. As your skills grow, you will be able to make most of the objects in your house or even build a home! No matter what you make, the joy of completing a woodworking project is the greatest. Through the wonders of working with wood, you will re-discover the natural curiosity and creativity of your early years by building and constructing items using woods and a wide variety of woodworking tools. From the basic skill of measuring to using advanced equipment such as routers and jointers, this project has something for everyone.

## Measuring Up Unit 1

### Jr./Int./Sr.

This unit is designed for members ages 8-18 years old.

This unit is appropriate for youth with little or no woodworking experience. Members will accomplish the following learning experiences:

- Learn how to organize your shop
- Learn how to identify wood-working tools
- Practice woodworking safety
- Learn how to measure and mark boards, use a square, and use a hand drill
- Learn how to use a hand saw

Identify different types of nails and screws

- Make a sandpaper block
- Construct a butt joint and use a hammer safely

## Making the Cut Unit 2

### Jr./Int./Sr.

This unit is designed for members ages 8-18 years old. This unit is appropriate for youth of any age who may have used a hammer, hand saw, hand or cordless drill, or other basic hand tools.

Members will accomplish the following learning experiences:

- Learn how to select wood based on grain
- Recognize the difference between plywood and fiberboard
- Learn how to develop a plan
- Learn how to use a combination square and make a miter cut
- Learn how to make a curved cut using a jig saw
- Learn how to use a sander
- Learn how to identify types of woodworking tools and much more!

## Nailing it Together Unit 3

### Jr./Int./Sr.

This unit is designed for members ages 8-18 years old. This unit is appropriate for youth who are competent with hand tools and have used a few basic power tools such as a power drill, press, jig saw, and power sander.

Members will accomplish the following learning experiences:

- Learn how to stay current with technology
- Explore career opportunities
- Learn how to use a T-bevel  
Learn how to use a powered circular saw and a radial arm saw
- Learn about hinges, hasps, and flush plates
- Understand the difference between various clamps
- Learn how to use various types of wood stains and much more!

## Finishing Up Unit 4

### Jr./Int./Sr.

This unit is designed for members ages 8-18 years old This unit is appropriate for youth who feel competent using power tools such as a table or radial arm saw, drill press, and a jig saw.

Members will accomplish the following learning experiences:

- Design a woodworking shop  
Learn more about potential careers
- Develop a woodworking plan  
Use a router, jointer, portable planer and scraper
- Learn mostise and tenon and dovetail joints and compare adhesives
- Learn how to use bleaches and strippers
- Learn how to build a wood vehicle, hockey board, step stool or chair, and much more!

## Resources and Links

[Woodworking Tip Sheet](#)

[Woodworking e-record](#)

[State Fair Exhibit Requirements](#)

[Woodworking Score Sheets](#)

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