

girl scouts
of eastern missouri

STEM • Cadette Badge Blueprint



Woodworking Badge

Purpose: Woodworking provides a feeling of great accomplishment. Plus, it's fun! During this badge, Girl Scouts add to their talents with a new skill they can use to make stylish and useful items for themselves and others.

Quick Tip: Always pay careful attention when using tools—especially power tools. This badge is best completed under the supervision of someone with woodworking skills: a carpenter, shop teacher, or a friend or family member with woodworking knowledge.

Step 1: Swing a hammer

Learn how to properly use a hammer by hammering nails into a piece of scrap lumber in a design of your choosing. Make sure you are using the right sized nails for the thickness of the wood you have and be careful not to hammer them all the way through. Start with a basic shape like a circle or star and work up to more complex shapes if desired. Tip: Draw the shape on the wood in pencil before beginning.

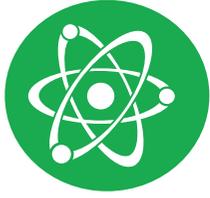
Step 2: Keep it level

Learn how to make sure your work is both level (straight, horizontally) and plumb (straight, vertically). There are several tools that are used to make sure things are both level and plumb. Borrow a level or use an app such as Bubble to test different items. Learn how to use a level by checking things around your house or troop meeting location. Straighten any pictures or wall hangings that might be askew. Check other things like floors, counters and rails to see how they measure up.

Step 3: Attach it, detach it

Using either a screwdriver or a power drill (or both), drill six screws into a piece of scrap wood. How can you unscrew these screws? Take special care to notice which way the threads turn—do the opposite to get it out.

Remember, girls gain confidence and leadership skills through girl-led activities. Whenever possible, let the girls take charge when completing activities. Adult help is necessary for guidance, support and safety.



girl scouts
of eastern missouri

STEM • Cadette Badge Blueprint



Step 4: Saw some wood to create the alphabet.

A miter saw is a saw with a metal guide and box that makes it easier to cut a piece of wood in a straight line. Learn how to use a miter saw correctly and safely. Then, use the saw to create pieces of wood and build letters. Start with a simple letter with straight lines such as N, M or E and work up to more complex letters. A simple miter saw and box can be purchased from a home improvement store for approximately \$10-\$15.

Step 5: Build yourself something

Work with your expert to find a project idea. Simple woodworking projects include birdhouses, picture frames, benches or small bookcases. The Woodworkers Guild of America has great plans for a variety of projects, perfect for beginners: www.wwgoa.com/projects/beginner-woodworking-projects/. Work together to build a basic photo frame—and then fill it with a photo of your troop!

Congratulations! You have now earned the Woodworking Badge!

Remember, girls gain confidence and leadership skills through girl-led activities. Whenever possible, let the girls take charge when completing activities. Adult help is necessary for guidance, support and safety.