

Woodworking

State Fair Entry

4 per county; one per level

Project Check In

One (1) Hour Prior to Judging

Shrine Building
Kosciusko County Fairground

Judging

Wednesday, June 26, 2024
9:00AM

Shrine Building
Kosciusko County Fairground

The 4-H woodworking project provides youth with educational information about wood and how it can be used to construct items.

Level 1 Grades 3-4 Exhibit one article of choice made during the current 4-H program year demonstrating a minimum of five (5) techniques outlined in the Indiana 4-H Woodworking Tools, Techniques and Skills Chart. Exhibits may also include higher level techniques that have been mastered. Any higher-level techniques will not be counted as part of the minimum five, but nevertheless will be evaluated for quality. A woodworking skills sheet is to be submitted with the exhibit for judging. Skills sheets are for judging purposes only and will not be returned to the exhibitor. Youth may also choose to create an educational poster, notebook or display about any manual activity or on any woodworking topic of choice that is age/grade appropriate.

Level 2 Grades 5-6 Exhibit one article of choice made during the current 4-H program year demonstrating a minimum of five (5) techniques outlined in the Indiana 4-H Woodworking Tools, Techniques and Skills Chart. Exhibits may also include lower and/or higher-level techniques that have been mastered. Any lower/higher level techniques will not be counted as part of the minimum five, but nevertheless will be evaluated for quality. A woodworking skills sheet is to be submitted with the exhibit for judging. Skills sheets are for judging purposes only and will not be returned to the exhibitor. Youth may also choose to create an educational poster, notebook or display about any manual activity or on any woodworking topic of choice that is age/grade appropriate.

Level 3 Grades 7-9 Exhibit one article of choice made during the current 4-H program year demonstrating a minimum of five (5) techniques outlined in the Indiana 4-H Woodworking Tools, Techniques and Skills Chart. Exhibits may also include lower and/or higher-level techniques that have been mastered. Any lower/higher level techniques will not be counted as part of the minimum five, but nevertheless will be evaluated for quality. A woodworking skills sheet is to be submitted with the exhibit for judging. Skills sheets are for judging purposes only and will not be returned to the exhibitor. Youth may also choose to create an educational poster, notebook or display about any manual activity or on any woodworking topic of choice that is age/grade appropriate.

Level 4 Grades 9-12 Exhibit one article of choice made during the current 4-H program year demonstrating a minimum of five (5) techniques outlined in the Indiana 4-H Woodworking Tools, Techniques and Skills Chart. Exhibits may also include lower-level techniques that have been mastered. Any lower-level techniques will not be counted as part of the minimum five, but nevertheless will be evaluated for quality. A woodworking skills sheet is to be submitted with the exhibit for judging. Skills sheets are for judging purposes only and will not be returned to the exhibitor. Youth may also choose to create an educational poster, notebook or display about any manual activity or on any woodworking topic of choice that is age/grade appropriate.

Indiana 4-H Woodworking Tools, Skills and Techniques

Indiana 4-H Woodworking Tools, Skills and Techniques Youth and their mentor/volunteer leader/instructor should use this chart as a guide when deciding appropriate tools and skills to use and incorporate in a woodworking exhibit. While this list is a guide, it is not meant to be an all-inclusive list and youth should demonstrate skills they are most comfortable mastering with tools used. For example, some youth in level 2 might feel comfortable attempting level 3 tools/skills, but it is unlikely that a level 1 exhibitor will be able to successfully master the level 4 tools/skills. Youth are encouraged to utilize a number of resources such as web sites, print material, social media, and television shows when learning woodworking skills. Skills learned from these types of resources may be demonstrated provided they are age/grade appropriate.

The "X" indicates suggested level to learn respective skill. Exhibits must include a minimum of 5 techniques from their level indicated in the chart below but may include additional techniques from other levels as deemed appropriate, but nevertheless will be evaluated for quality. For example, Level 3 exhibitors may use any techniques found in Level 1 or Level 2 but the exhibit must include a minimum of 5 Level 3 techniques. Level 4 may use any techniques found in the lower three levels but must have a minimum of 5 Level 4 techniques.

| SKILL | LEVEL 1 & 2 | LEVEL 1 & 2 | LEVEL 3 | LEVEL 4 |
|--|-------------|-------------|---------|---------|
| SAFETY (Required of all levels and not counted as a Skill or Technique) | | | | |
| Ear Protection | X | X | X | X |
| Eye Protection | X | X | X | X |
| Shop Organization | X | X | X | X |
| Machine Guards | X | X | X | X |
| LAYOUT | | | | |
| Ruler | X | | | |
| Tape Measure | X | | | |
| Square | X | | | |
| COMMON TOOLS | | | | |
| Hammer | X | | | |
| Handsaw | X | | | |
| Coping Saw | X | | | |
| Scroll Saw | X | | | |
| Screw Driver | X | | | |
| Wood Chisel | X | | | |
| Pliers | X | | | |
| Hand Plane | | X | | |
| POWER TOOLS | | | | |
| Band Saw | X | | | |
| Table Saw | | X | | |
| Electric Drill | | X | | |
| Radial Arm Saw | | | X | |
| Circular Saw | | | X | |
| Planner | | | | X |
| Lathe | | | | X |
| Jointer | | | | X |
| Miter Saw | | | | X |
| Scroll Saw | | | X | X |
| MATERIAL SELECTION | | | | |
| Wood | X | | | |
| Wood Products | X | | | |
| Plywood | X | | | |
| Fiberboard | X | | | |
| Synthetic Products | | | X | X |
| JOINTS | | | | |

| | | | | |
|--------------------------|---|---|---|---|
| Lap Joint | X | | | |
| Butt Joints | X | | | |
| Basket Joints | | X | | |
| Doweled Joints | | X | | |
| Mortise and Tenor Joints | | | X | |
| Dado Joints | | | X | |
| Miter Joints | | | | X |
| Dovetail Joints | | | | X |
| Box Joints | | | X | X |
| TABLE ROUTING | | | | |
| Bevels | | | X | |
| Dadoing | | | X | |
| Rabbeting | | | X | |
| Planning | | | | X |
| Jointing | | | | X |
| FASTENERS | | | | |
| Screws | X | | | |
| Nails | X | | | |
| Bolting | X | | | |
| Gluing | X | | | |
| Pocket Hole Fasteners | | X | | |
| Brad Nailer | | | | X |
| FINISHING | | | | |
| Sanding | X | | | |
| Penetrating Finish | X | | | |
| Painting | X | | | |
| Varnishing | | X | | |
| Spraying | | | | X |
| FREEHAND ROUTING | | | | |
| Bevels | | | X | |
| Dadoing | | | X | |
| Rabbeting | | | X | |
| Planning | | | | X |
| Jointing | | | | X |