WOODWORKING/WOOD SCIENCE Project Guidelines

The 4-H Wood Sciences program provides youth with educational information about wood and how it can be used to construct items. The Wood Science project develops project skills (i.e., safe practices, using hand tools, using power tools, making specialized wood cuts) and life skills (i.e., decision making, using science and technology, developing communication skills). These fun-filled, hands-on learning experiences should be provided under the direction of caring adults.

Project Objectives:

To develop an appreciation for woodworking as a practical art or vocation.

To learn appropriate construction uses of different species of wood.

To learn safe, proper use of woodworking tools and related items.

To learn how to prepare wood for finishing, and to select the proper finish for the intended use of the project constructed.

Project Rules:

Project work **must** be done by 4-H member, with limited "how to" assistance provided by an adult as appropriate for age/experience level.

Article is to be "finished" as appropriate for its intended use.

Articles will be judged according to the requirements of a given exhibit level.

Adult consultation recommended for the following:

- A) Selection of article to be constructed.
- B) Selection of tools to be used by member in constructing article, with safety being the primary concern to be taken into consideration regarding tool selection approval.
- C) Selection of finish(s) to be used on article constructed.

EXHIBIT LEVELS/REQUIRMENTS RECOMMENDATIONS:

BEGINNER LEVEL = 4-H members 8-11 years old by January 1.

1st – Year in Woodworking (ever): Construct one (1) article using any of the following preapproved hand and simple power tools. Adult approval required for use of more advanced tools than those listed.

Brace and bit Miter Saw, Tri-Square, Chisel, Hammer, Sandpaper, Portable Elec. Drill, Hand Saws, Screwdrivers, Planer, Drill Press, Vibrating or Reciprocating Sander

2-3 Year Beginner: Construct one article. Increase knowledge and skills used over previous year(s) using the following pre-approved tools.

Brace and bit Miter Saw, Tri-Square, Chisel, Planer, Portable Elec. Drill, Hammer, Sandpaper, Hand Saws, Screwdrivers, Drill Press, Vibrating or Reciprocating Sander, Band Saw, Table Saw, Jig Saw, Router, Saber Saw

INTERMEDIATE LEVEL = 4-H members 12-14 years old by January 1.

1st Year in Woodworking (ever): Construct one (1) article using the same pre-approved tools listed under 2nd - 3rd year above. Use of any of the (4) types of power saws and/or router listed under 2nd - 3rd year Beginner and/or any other power tool not listed.

Other than 1st year in Woodworking: Construct one (1) article showing increase in skills development over previous ears using the pre-approved tools listed under 2nd – 3rd Year Beginner above. The following power tools may also be used: Any type of Power Saw, Router, Drill press, Belt and Disk Sander, Planer, Jointer.

ADVANCED LEVEL: 4-H members 15-19 years old by January 1.

1st Year in Woodworking (ever): Construct one (1) article using the same pre-approved tools listed under 2nd - Year/3rd – Year Beginner above. Use of any of the four (4) types of power saws and/or any other power tool not listed

Other than 1st – Year in Woodworking: Construct one (1) article showing increase in skills development over previous years. Any type of power tool may be used.

RESOURCES

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