

2008 4-H WOOD SCIENCE JUDGING

The 2008 4-H Wood Science judging Contest will include two divisions. The beginner division is designed for 8-10 year old 4-H members with limited experience in this project. The senior contest is open to any 4-H member, regardless of age or experience. Questions for the beginner contest will be taken from Measuring Up, Level 1. The senior contest will draw on materials contained in Levels 1-4.

The 2008 Wood Science Contest will include all or part of the following:

A. Beginner

1. Identify 5 of the 13 tools listed on page 8 of Level 1, Measuring Up, the 4-H Wood Science Project Manual as well as the hammers, saws and screwdrivers listed in this guide.
2. Be able to identify at least one safety practice used with 5 listed tools identified as listed in the guide.
3. Identify the parts of a hammer, handsaw or coping saw.
4. Demonstrate one or more of the following skills:
 - a. Use a square to draw a line across a board. (Page 15)
 - b. Saw a board using a handsaw. (Page 20)
 - c. Connect two pieces of wood using nails or screws. (Page 23)
 - d. Remove a nail from a piece of wood. (Pages 18 and 19, 23-29)
5. Be familiar with the terms in the glossaries of Level 1. (Page 36)
6. Rank a class of 4 finished or unfinished items considering workmanship, appearance, and suitability and quality of the finish.
7. Know how to use a ruler or tape measure. (Page 15)

B. Senior

Senior members will be responsible for understanding all items from the beginner event as well as:

1. Listing at least one safety rule with any tool listed in Levels 1-4.
2. Identify 10 tools from Levels 1-4 including those attached to this guide.
3. From a box or can containing a mixture of screws and nails, be able to select 10 items as directed.
4. Demonstrate one or more of the following skills:
 - a. Mark and measure wood as directed.
 - b. Draw a plan to scale. (Page 23 and 24, Level 3)
 - c. Make an angled cut. (Page 21).
 - d. Select the correct type and grade of sandpaper and demonstrate how to correctly sand the given object.
 - e. From a set of plans, identify the tools and supplies needed to construct the item shown.
 - f. Use a protractor and T-bevel to draw 15, 45 and 70-degree angles. (Page 10, Level 3)
 - g. Enlarge scale drawn plans. (Page 11, Level 3)
 - h. Demonstrate any other common procedure using the correct tool.
5. Be familiar with the terms in the glossary of Levels 1-4.
6. Rank one or more classes of 4 finished or unfinished items considering workmanship, appearance, and suitability and quality of the finish.
7. Be able to determine the correct pieces of wood to select to construct an article from a plan. A sample plan is attached. Other sample plans are available on the Minwax web page at: <http://www.minwax.com/>
8. Identify the different types of joint connections (Pages 14-17, Level 3) (Pages 17-20, Level 4)
9. Identify the parts of a circular saw and safety related. (Page 16, Level 4)
10. All material printed in this guide.

Wood Training Box – Each county has a wood science-training box with samples of woods, joints, fasteners and more.

Other Training Tips – Take a field trip to local hardware and building supply store or plan a trip to a furniture store to view finished and unfinished items. Visit web sites listed in the back of the project manuals and read woodworking magazines.

Don't Forget! – Each participant should bring a pencil, clipboard and paper to the contest.