

4-H WOODWORKING DAY
Youth Center – Monday, August 2, 2021
Andrew Klopfenstein, Assistant Superintendent

GENERAL GUIDELINES

1. Participation Guidelines:

- Counties may have a total of 16 participants with no more than two participants per class. No individual may participate in more than one class.
- Clock trophy winner of any one class in 2019 is not eligible to participate in the same class for 2021.
- Projects will be on display to the public following judging until after the awards presentation at 4:30 p.m. unless space is unavailable. **The project must remain on display to be considered for awards.** For classes J-5 through J-8, the “Skill Project” will also be on display. All exhibits must be removed from the Youth Center by **6:00 p.m.**
- Exhibitors that use tools that are listed for higher project classes than what they took will be evaluated only and not considered for awards. This is a safety issue.
- Exhibitors may not use projects that were made for school.

2. Type of Evaluation:

- Each participant will complete a skill project at the fair. (See descriptions below)
- Participant will have a personal interview and evaluation of their “home” project and the skill project made at the fair, with a judge.
- Judge will evaluate participant on the following basis (also see sample score sheet):
Classes J-1 to J-4
25% Skill project made at fair
50% Project knowledge and quality of “home” project
25% Personal interview

Classes J-5 to J-8

20% Knowledge and concepts learned in project
30% Skill project made at fair
30% Use of advanced skills and workmanship
20% Personal interview

3. Participant to bring:

- **Completed project book** (based on number of years using same project book).
- Exhibitors shall **display ONE item** (“home project”) made from their project book or an item requiring the same skills as contained in the project book (members may use any or all tools listed in their class and for lower classes, plus advanced joining techniques appropriate to project). Remember it is the demonstration of skills and not the size of the project that is judged.
- FOR HEALTH AND SAFETY REASONS, we **require** you to wear eye protection (either **safety glasses or goggles**) when making your skill project at the fair. Please bring your own since there is a possibility of transmitting eye diseases by sharing. However, there will be goggles available for those who don’t have their own. Contestants should be **suitably dressed** for working with wood. No open toe shoes will be permitted in the working area.
- Refer to additional project requirements as listed in class listed on the following pages.

Woodworking Participation Schedule

Report to the registration desk **15** minutes before your county is scheduled.

| | |
|------------|---|
| 9:00 a.m. | Clark, Delaware, Fairfield, Fayette, Franklin, Licking, Logan, Madison, Marion, Morrow, Muskingum, Pickaway, Union |
| 10:00 a.m. | Allen, Ashland, Champaign, Coshocton, Crawford, Greene, Hardin, Hocking, Holmes, Knox, Miami, Montgomery, Perry, Richland, Ross, Shelby, Vinton, Wyandot |
| 11:00 a.m. | Athens, Clinton, Guernsey, Hancock, Highland, Huron, Jackson, Medina, Morgan, Pike, Seneca, Stark, Summit, Tuscarawas, Warren, Wayne, Wood |
| 1:00 p.m. | Auglaize, Belmont, Butler, Carroll, Clermont, Darke, Erie, Hamilton, Harrison, Lorain, Monroe, Noble, Paulding, Portage, Preble, Putnam, Sandusky, Van Wert, Washington |
| 2:00 p.m. | Adams, Ashtabula, Brown, Columbiana, Cuyahoga, Defiance, Fulton, Henry, Gallia, Geauga, Jefferson, Lake, Lawrence, Lucas, Mahoning, Meigs, Mercer, Ottawa, Scioto, Trumbull, Williams |

CLASSES

For Classes J-1 – J-2, the member is expected to do **90%** or more of the project. The helper may dimension the lumber to the correct width.

J-1 **Measuring Up – Junior** (age 13 years and under) – **Unit 1**

Participants should exhibit a project, which shows they have learned how to use hand tools including: All non-power hand tools (hammers, saws, clamps, layout tools, chisels, etc.). Plus the following power tools **if they have safety instructions and closely supervised by a knowledgeable adult**: power hand sanders, oscillating belt sander, power drills, jigsaw, scroll saw. Decorative finishes are acceptable but will not be evaluated in final woodworking skills judging for this class, e.g. CNC, wood burning, artificial flowers, etc.

J-2 **Measuring Up – Senior** (age 14 & older) – **Unit 1**

Same description as above.

For Classes J-3-J-8, the member is expected to do **100%** of the work.

J-3 **Making the Cut – Junior** (age 13 years and under) – **Unit 2**

Participants should exhibit a project which shows they have learned how to use tools including: J-1 and J-2 tools, plus the following power tools **if they have safety instructions & closely supervised by an adult**: power miter saw, thickness planer, table saw, cordless trim saw, drill press, power nailing devices, power sander, band saw, biscuit joiner, pocket screw joints. Decorative finishes are acceptable but will not be evaluated in final woodworking skills judging for this class, e.g. CNC, wood burning, artificial flowers, etc.

J-4 **Making the Cut – Senior** (age 14 & older) – **Unit 2**

Same description as above.

J-5 **Nailing It Together – Junior** (age 13 years and under) – **Unit 3**

Participants should exhibit a project which shows they have learned how to properly use tools in its creation. A member may use a wide variety of non-power and power tools including shaper, radial arm saw, lathe, router/router table, dovetail jig, joiner **if they have safety instructions & are closely supervised by a knowledgeable adult**. Use of advanced joining techniques (mortise & tenon, pocket holes, dovetails, etc.) encouraged if matched to member skills. Projects should demonstrate the member has increased their knowledge and skills over previous projects. Decorative finishes are acceptable but will not be evaluated in final woodworking skills judging for this class, e.g. CNC, wood burning, artificial flowers, etc.

J-6 **Nailing It Together – Senior** (age 14 & older) – **Unit 3**

Same description as above.

J-7 **Finishing Up – Unit 4**

Participants should exhibit a project which shows they have learned how to properly use tools in its creation. A member may use all non-power and power tools **if they have safety instructions and supervised by a knowledgeable adult**. Project should demonstrate the member has increased their knowledge and skills over previous projects.

J-8 **Woodworking Master 560M**

Project should show creativity, proper joinery technique, good layout and design. Projects might include: intarsia, carvings, marquetry, lathe work, original designs and antique furniture reproductions.

AWARDS

1. All participants shall receive a participation award sponsored by The Ohio State Fair.
2. "Outstanding of the Day" awards will be presented to the top 20% of class participants, sponsored by The Ohio State Fair.
3. The winner of each class will receive a clock trophy. The 2019 event was sponsored by **Frederick D. Pepple, Jackie Stuts, Larry Hall, Doug and Cindy Tenney and Bob and Linda Joseph**

2019 CLASS WINNERS (Are not eligible to participate in the same class in 2021)

| | | |
|-----|------------------------------|------------------------------|
| J-1 | Measuring Up – Junior | Emma Brunson, Shelby |
| J-2 | Measuring Up – Senior | Mitchell Shannon, Stark |
| J-3 | Making the Cut – Junior | Caleb Turner, Auglaize |
| J-4 | Making the Cut – Senior | Gage Smith, Gallia |
| J-5 | Nailing It Together – Junior | Jonathan Kemmerle, Ashtabula |
| J-6 | Nailing It Together – Senior | Sharolyn Balbaugh, Auglaize |
| J-7 | Finishing Up | Olivia Jones, Auglaize |
| J-8 | Woodworking Master | Timothy Ritchey, Clinton |

Criteria for Scoring Woodworking Projects

4-H'ers can expect their state level projects to be evaluated in the following manner:

Knowledge, Skills and Use of Advanced Techniques **30 percent of grade for Classes J-5 to J-8**

Members should demonstrate their knowledge of woodworking techniques, skills developed and the use of advanced jointing techniques in their project. Judges should get a feel for the knowledge the member has developed through their project. A member should be able to explain what techniques they used and why they were used. Quality of workmanship and use of appropriate design is another important factor in judging.

Skill Project made at fair **25 percent of grade for Classes J-1 to J-4** **20 percent of grade for Classes J-5 to J-8**

By making a skill project at the fair, 4-H'ers can demonstrate their proficiency with selected tools, cuts and measurements. This component of the evaluation is important to help judges understand the proficiency of skills possessed by the child. Time limits are given for each project so that 4-H'ers can keep moving through the judging process. (Reference the skill project descriptions for tools and materials used in each state fair class).

Home Project Brought to Judging **50 percent of grade for Classes J-1 to J-4** **30 percent of grade for Classes J-5 to J-8**

The project built at home will be evaluated according to the skills and tools learned from the project book. Participants in higher classes should also show knowledge and the use of tools in previous levels. As always, it is important the participant show proficiency and use of tools in the class they are enrolled; other tools used from higher project levels will not count towards project grade. Youth will not be disqualified for using tools in higher levels; they just won't get credit for using them. There is not a standard project that every participant be expected to make; we want youth to make a project that interests them and is of some use. However, participant will be graded against the same standards using similar tools and skills (as identified in their 4-H project), even though their projects will look differently than other 4-H'ers in the same level.

Communication Skills **25 percent of grade for Classes J-1 to J-4** **20 percent of grade for Classes J-5 to J-8**

The interview is an important component to the evaluation process. The 4-H program is not in the business of selecting the 4-H'ers who have the most tools in their toolbox, or who can build the best bird house. The 4-H program helps youth develop critical "life" skills that will help them in future experiences. The important part of the project completion is the youth's understanding of what he or she has achieved, and how well this information can be communicated to an adult volunteer. Building communication skills, learning how to interview, and speaking with a positive attitude helps youth build their self-esteem and become confident in their speaking abilities.

Judging Procedure:

Check in at the Registration Table.

Go to the center workshop area, you will be required to demonstrate your woodworking skill by completing the appropriate skill project for your class. We highly recommend that you practice making your skill project before you come to the fair. The descriptions for each class are enclosed with this letter. All materials and tools will be provided and you will be supervised while you do the work yourself.

After leaving the workshop area you will then go to your interview judge with two wood projects: the skill project you have just completed, and the wood project you made at home. Again we are asking all participants to display their home project in a secured area in the building until the conclusion of the Awards program, which begins at 4:30 P.M. All projects must be removed before 6:00 PM. Large or heavy project displays may be hauled directly to the north door of the Youth Center using the Ohio State Fair Load/Unload pass, which is available through your county Extension Office.

When you have completed your judging events, you are free to enjoy the fair. At 4:30 p.m., awards will be presented on the center stage of the Youth Center. You are encouraged to attend this presentation.

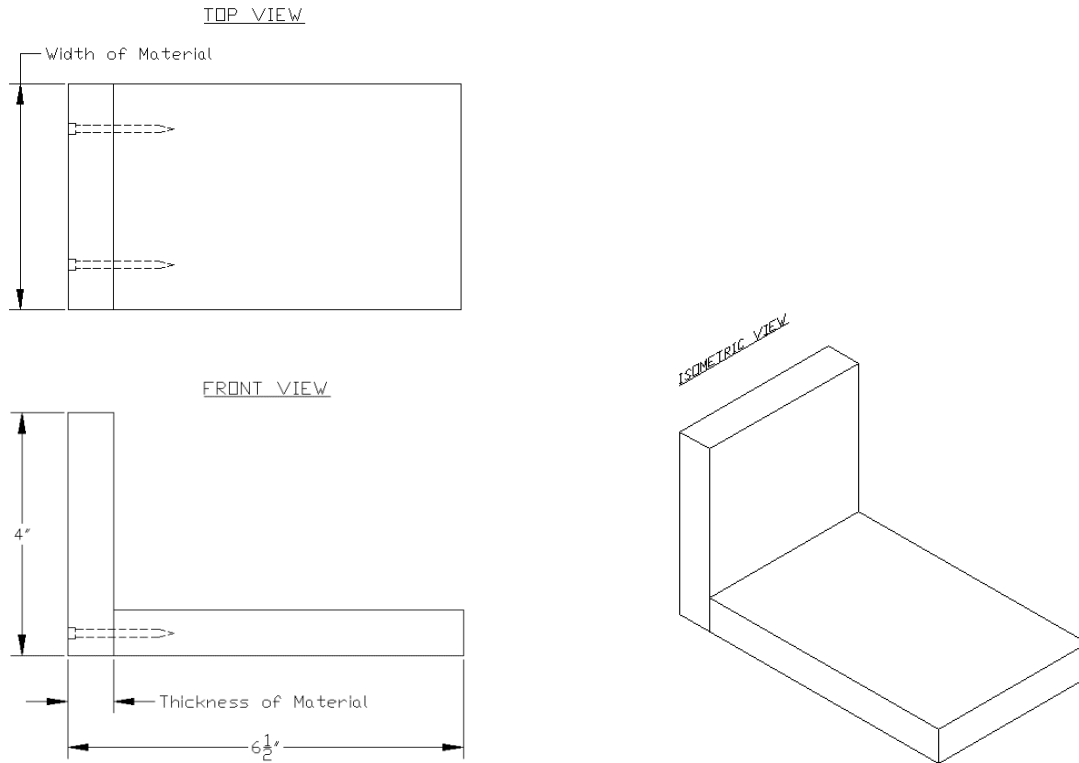
Skill Project Descriptions

We highly recommend that you practice making your skill project before you come to the fair. The descriptions are:

Project for participants in J-1 and J-2

Given: 1 x 4 stock, 1 workmate bench, 1 hammer, 1 nail set, nails, 1 rule, 1 combination square, 1 crosscut hand saw, glue, 1 small drill bit and 1 cordless power drill will be available.

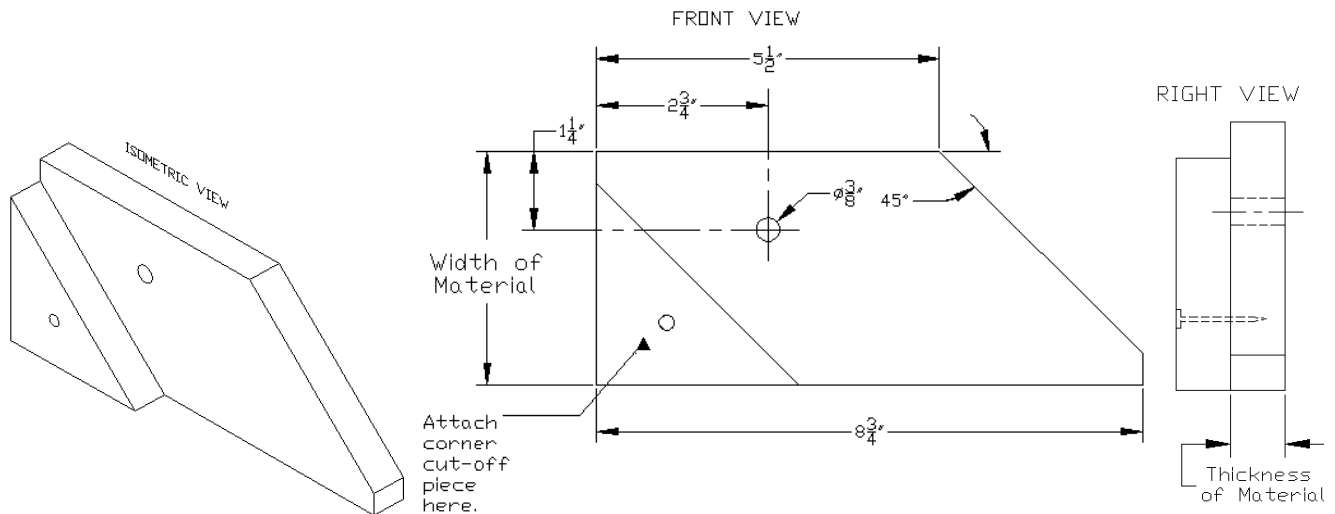
Cut and assemble two pieces as shown in ten minutes.



Project for participants in J-3 and J-4

Given: 1 x 4 stock, 1 workmate bench, 1 hammer, 1 combination square, 1 crosscut hand saw, 1 steel tape measure, 1 miter box, 1 back saw, wood glue, nails, 3/8 spade bit, 1 cordless power drill will be available.

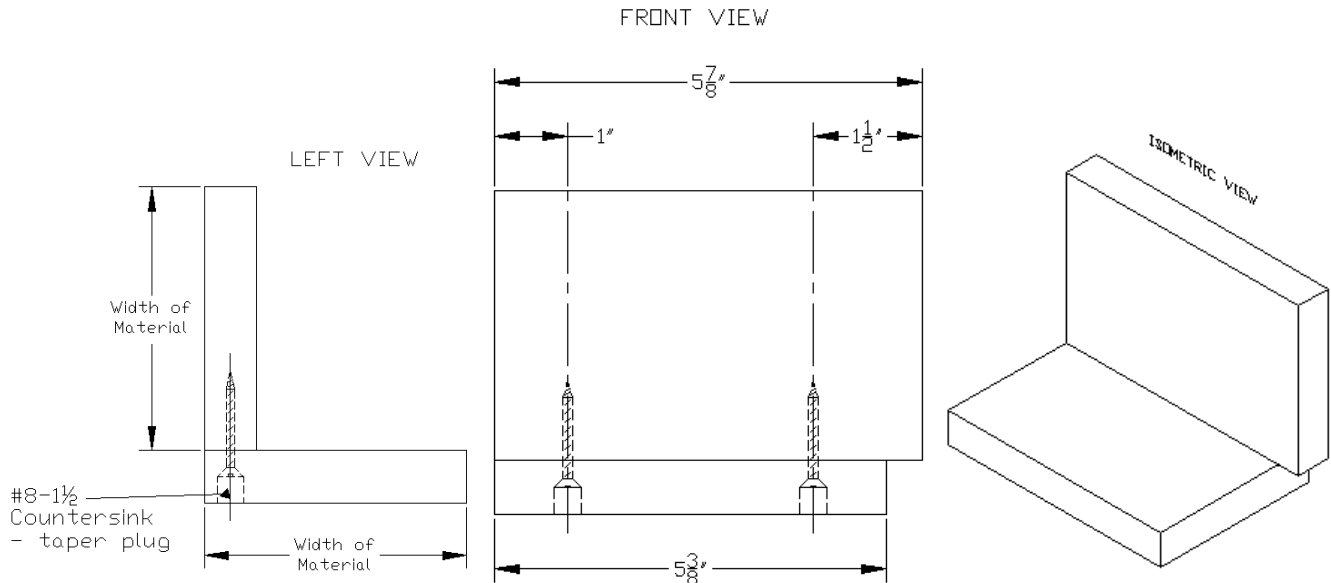
Cut piece as shown and attach corner cut-off with glue and a nail, in ten minutes.



Project for participants in J-5 and J-6

Given: 1 x 4 stock, 1 workmate bench, 1 steel tape measure, 1 combination square, 1 mallet, 1 crosscut hand saw, 1 screwdriver, 1 1/4" screws, a countersink bit, 3/8" spade bit, wood glue, taper plugs, 1 cordless power drill will be available.

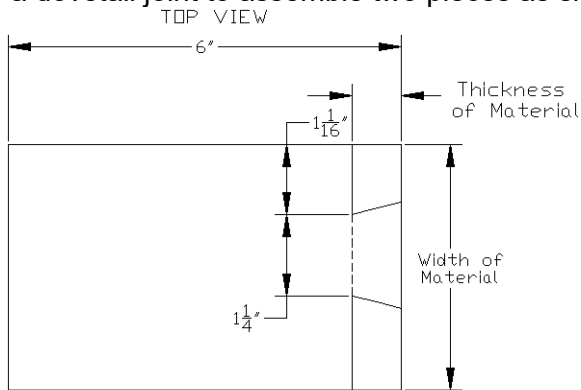
Cut and assemble two pieces as shown in ten minutes.



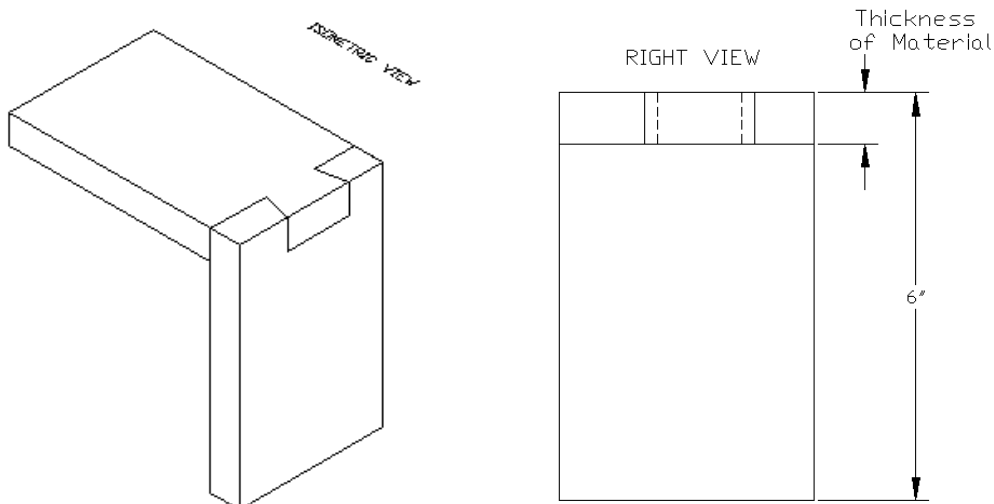
Project for participants in J-7 and J-8

Given: 1 x 4 stock pre-cut to size, 1 workmate bench, 1 steel tape measure, 1 combination square, 1 sliding T-bevel square, 1 dovetail saw, 1 mallet, and 1 coping saw.

Make a dovetail joint to assemble two pieces as shown in fifteen minutes.



The angle for the Pins and Tails of the dovetail joint is 70-80 degrees.



**4-H Woodworking Day
Evaluation Sheet (Classes J-1 through J-4)**

Name: _____ Exhibitor Number: _____

County: _____ Class: _____

Keep this sheet with you until the judge calls your exhibitor number.

SKILL PROJECT: 20%

Skill project time (Minus 5 points if over time) _____ Time (J1/2 and J3/4 - 10 minutes allowed) _____

| Skill Judge Points Awarded (1–15 points) _____ | Average | Good | V. Good | Excellent |
|---|----------------|-------------|----------------|------------------|
| Proper and skillful use of tools | _____ | _____ | _____ | _____ |
| Use of proper safety procedures | _____ | _____ | _____ | _____ |
| Following skill project plan | _____ | _____ | _____ | _____ |
| 4-H'er apparel, demeanor, and proficiency | _____ | _____ | _____ | _____ |

| Interview Judge Points Awarded (1–5 points) _____ | Average | Good | V. Good | Excellent |
|--|----------------|-------------|----------------|------------------|
|--|----------------|-------------|----------------|------------------|

| | | | | |
|-----------------------------|-------|-------|-------|-------|
| Accuracy of dimensions | _____ | _____ | _____ | _____ |
| Quality of finished project | _____ | _____ | _____ | _____ |

COMPETITION PROJECT: 50%

| Skills | Average | Good | V. Good | Excellent |
|---------------|----------------|-------------|----------------|------------------|
|---------------|----------------|-------------|----------------|------------------|

| | | | | |
|--|-------|-------|-------|-------|
| Accuracy - measurements, cutting, and assembly | _____ | _____ | _____ | _____ |
| Proper use of joinery and fasteners | _____ | _____ | _____ | _____ |
| Preparation of surfaces and quality of finish | _____ | _____ | _____ | _____ |

General Characteristics

| | | | | |
|---|-------|-------|-------|-------|
| Attractive and well-proportioned | _____ | _____ | _____ | _____ |
| How well it will serve its intended purpose | _____ | _____ | _____ | _____ |
| Proper selection of wood, based on intended use | _____ | _____ | _____ | _____ |

| COMMUNICATION SKILLS: 30% | Average | Good | V. Good | Excellent |
|----------------------------------|----------------|-------------|----------------|------------------|
|----------------------------------|----------------|-------------|----------------|------------------|

Able to explain project design, materials chosen and intended use |_____| |_____| |_____|

Project Book

| | | | | |
|---|-------|-------|-------|-------|
| Accurate and complete according to project guidelines | _____ | _____ | _____ | _____ |
| Able to explain construction techniques | _____ | _____ | _____ | _____ |
| Appearance | _____ | _____ | _____ | _____ |

JUDGES COMMENTS:

Strengths:

Area(s) for Improvements:

4-H Woodworking Day Evaluation Sheet (Classes J-5 through J-8)

Name: _____ Exhibitor Number: _____

County: _____ Class: _____

Keep this sheet with you until the judge calls your exhibitor number.

SKILL PROJECT: 20%

Skill project time (Minus 5 points if over time) _____ Time (J5/6 - 10 min., J7/8 - 15 min. allowed) _____
Skill Judge Points Awarded (1-15 points) _____ **Average** **Good** **V. Good** **Excellent**

| | | | | |
|---|-------|-------|-------|-------|
| Skillful use of tools | _____ | _____ | _____ | _____ |
| Use of proper safety procedures | _____ | _____ | _____ | _____ |
| Following skill project plan | _____ | _____ | _____ | _____ |
| 4-H'er apparel, demeanor, and proficiency | _____ | _____ | _____ | _____ |

Interview Judge Points Awarded (1-5 points) _____ **Average** **Good** **V. Good** **Excellent**

| | | | | |
|-----------------------------|-------|-------|-------|-------|
| Accuracy of dimensions | _____ | _____ | _____ | _____ |
| Quality of finished project | _____ | _____ | _____ | _____ |

COMPETITION PROJECT: 30%

Factors to be considered:

| | Average | Good | V. Good | Excellent |
|--|---------|-------|---------|-----------|
| Proportionality and squareness | _____ | _____ | _____ | _____ |
| Quality of basic woodworking skills | _____ | _____ | _____ | _____ |
| Use of appropriate joinery | _____ | _____ | _____ | _____ |
| Application of appropriate finish | _____ | _____ | _____ | _____ |
| Quality of finish and techniques | _____ | _____ | _____ | _____ |
| Composite eye appeal of finished project | _____ | _____ | _____ | _____ |

ADVANCED SKILLS & TECHNIQUES: 30%

Factors to be considered:

A. Use of more complex techniques and skills

| | Average | Good | V. Good | Excellent |
|--|---------|-------|---------|-----------|
| <input type="checkbox"/> Dovetail joints | _____ | _____ | _____ | _____ |
| <input type="checkbox"/> Stile and rail construction | | | | |
| <input type="checkbox"/> Dado cuts | | | | |
| <input type="checkbox"/> Rabbet joints | | | | |
| <input type="checkbox"/> Raised panels | | | | |
| <input type="checkbox"/> Inlay | | | | |
| <input type="checkbox"/> Miter joints | _____ | _____ | _____ | _____ |
| <input type="checkbox"/> Router edges | | | | |
| <input type="checkbox"/> Molding and trim | | | | |
| <input type="checkbox"/> Pocket screw joinery | _____ | _____ | _____ | _____ |
| <input type="checkbox"/> Biscuit joinery | | | | |
| <input type="checkbox"/> Lathe and scroll work | _____ | _____ | _____ | _____ |

Additional techniques and skills demonstrated _____

B. Quality of workmanship attained using advanced techniques and skills

| | Average | Good | V. Good | Excellent |
|---|---------|-------|---------|-----------|
| Techniques used in an appropriate manner | _____ | _____ | _____ | _____ |
| Improvement of overall quality by using above skills and techniques | _____ | _____ | _____ | _____ |

COMMUNICATION SKILLS: 20%

Factors to be considered:

| | Average | Good | V. Good | Excellent |
|---|---------|-------|---------|-----------|
| Ability to explain overall project design and construction techniques | _____ | _____ | _____ | _____ |
| Able to clearly relate construction procedures | | | | |
| Able to describe tool usage during construction | | | | |
| Clearly and accurately answer questions posed by judge | | | | |
| Project book reflects a working knowledge of the project | | | | |
| Appearance and attitude reflect respect for 4-H and the project | | | | |

JUDGES COMMENTS:

Strengths:

Area(s) for improvement: