

Agricultural Shop Class

Children's sized Adirondack Chair

Steps and Procedures

Project Purpose: the purpose of this project is for you to work within a team setting to create a project of quality. You will also be demonstrating the ability to use power and hand tools in a safe manner.

1. You will be working with a partner on this project.
2. If you wish to buy your chair, the cost will be \$_____
3. If you do not wish to buy your chair, it will be for sale to general public for \$_____
4. If you and your partner make a chair that is poorly constructed, etc, you will need to reimburse the school for the cost of materials.
5. Each group will start with 2 – 1” x 8” boards that are 6 feet long.
6. From these two boards, you will have enough lumber to make all parts of the chair, except for the seat slats – I will be cutting them out for all groups.



- **Sanding involves using coarse, medium, and fine sandpaper.**
- **Day 1:** trace out using the template all components of the chair. Cut out using the bandsaw the chair legs.
- **Day 2:** while one partner begins sanding the chair legs, the other partner will need to cut out the leg supports and seat support.
- **Day 3:** continue sanding and begin cutting out everything else but the back slats.
- **Day 4:** continue cutting out chair pieces and sanding.
- **Day 5:** finish cutting out chair pieces and sanding.
- **Day 6:** make certain the all are finely sanded and are matching to one another.
- **Day 7:** All components are stained and/or clearcoated to protect the bare wood.
- **Day 8:** Begin assembly
- **Day 9:** finish assembly.



Roland-Story Agriculture Education

Agriculture Shop Class

Evaluation – Adirondack Chair

Name _____

| Evaluation Criteria | 4—Excellent | 3 –Above Average | 2 – Average | 1 –Below Average |
|----------------------------|-----------------------------------|--|-------------------------------------|---------------------------------------|
| Length | Correct length | ¼ to 1/8 inch off | ½ to ¼ inch off | More than ½ inch off |
| Width | Correct width | ¼ to 1/8 inch off | ½ to ¼ inch off | More than ½ inch off |
| Finish | Very smooth and free of defects | Smooth with some defects | Rough with defects | Rough with splits |
| Appearance | Even with correctly applied stain | Slightly uneven with correctly applied stain | Uneven with correctly applied stain | Uneven with stain applied incorrectly |
| Drilling | Centered with no splits | Centered with less than 2 splits | 3 to 5 splits | More than 5 splits |

Questions to answer on the reverse side.

1. What was the most difficult task of this project for you?

2. What was the easiest task of this project for you?

3. What did you learn by doing this chair project?