Welding and Metal Arts

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Project Description:

This project is designed to help you learn more about welding. You will learn about welding safety equipment, types of welders, types or welding rods, uses of welding, and careers associated with welding.

**Note:** Complete all divisions sequentially. Start this project with Beginning Division no matter what grade you are in.

POSTER REQUIREMENTS:

See general poster guidelines and requirements in the rule book.

Exhibit your weld**:**

Beginning Division: Exhibit a poster or notebook on the topics listed below:

Year 1: Welding Rods

Year 2: Welders

Year 3: Welding Safety

Intermediate Division (Year 4-6): Exhibit a poster, a notebook, or choose to weld one of the examples below:

1. Begin with a piece of mild steel flatiron (5"x8"x1/2") onto which you will weld: a) a row of straight beads, b) a row of weave beads, c) a row of hard face weave beads.

2. Weld two (2) pieces of flatiron in a "T" joint to the original flatiron. Do the corner weld vertically. The vertical corner weld should be at least 4" long. Weld the two pieces to the original flatiron with either straight or weave beads.

3. Butt weld another piece of flatiron 3x5x1/4" to the original piece of flatiron.

4. Lap weld another piece of flatiron 3x5x1/4" to the original piece of flatiron.

5. Weld your initials and the year on the back of the original piece of flatiron.

\*Please make sure to label and identify each weld.

Advanced Division (Year 7-10): Exhibit one item that you have made or repaired. If it is a repaired item, indicate clearly the repairs you made. If it is an item you made, indicate its use, how long it took to make, and whether it is your original design. The item may be useful, decorative or artistic. REMEMBER: Make or repair an item worthy of your time and efforts. Be proud of what you exhibit. The following criteria will be used for judging:

1. Quality of the welds used.
2. Appropriateness of the welds used.
3. Quality of the joints made (if any).
4. Appropriateness of joints selected (if any)
5. Usefulness of the item made.
6. Overall appearance and neatness.

NO STATE FAIR ENTRY