

4-H WELDING and METAL ARTS: BLACKSMITHING

TERMS AND CONDITIONS

1. Posters must be displayed horizontally, sized 22" x 28", mounted on a firm backing (foam core board or other), and covered in clear plastic or other transparent material. Include exhibit tag with your name, grade and county. Refer to 4-H Poster Guidelines.
2. There is no State Fair entry at this time, but each division will have a Champion and Reserve Champion. One Overall Grand and Reserve Grand Champion will be chosen.

EXHIBITS

1. There will be eight divisions grouped by: beginning, intermediate, advanced and artistic.
2. Every member must complete divisions in order before advancing to next division. Members are allowed to "test out" of earlier divisions by demonstrating proficiency to the superintendent.
3. Members may not stay in a division more than 2 years.
4. In addition to the division projects, each member will include a project general record sheet. The record sheet will contain information about the processes, costs, related tools and knowledge used to complete your project. **This must be turned in with your project.**
5. Submit sketch to club leader for approval **prior** to starting projects for Divisions 2 - 6.
6. All metal must have burrs removed and a protective finish to prevent rust: oil, paint or hot wax.

DIVISION DEFINITION - Each division project must demonstrate listed skills.

Division I: Basic skills

Make a 12" x 12" solid backed wood display board demonstrating basic skills. Cut off each piece and attach to project board. Label each piece.

Skills: Drawing a square point, Twist, 90° bend, Scroll

Project: Make an "S" hook 6" long with a 1 ½ twist.

Division II: Basic skills continued

Skills: Punching, Drifting, Riveting and Upsetting

Projects: Make a punch of ½" round. Make a candleholder with a riveted candle cup per supervisors design. An "upset" example must be displayed with entry. "Before" and "after" pieces will be displayed.

A 4" x 3/8" sq. piece will be upset to less than 2.25" and be straight, square and smooth. No filing allowed.

Division III: Intermediate

Skills: Tool making, Slitting

Projects: Make 1 pair tongs of 18" x 3/8" and a slitting chisel. Temper the chisel. Using 1/8" x 1" flat iron, make a wall hook with slit and scrolled top end. Punch hole for mounting. Taper hook and scroll end.

Optional Extra Project: Make a cross peen hammer of 1 1/2" square. Striker may be used on hammer.

Division IV: Intermediate continued

Skills: Collaring, Scrolling, Creativity

Projects: Make 3 unique projects to be displayed at the fair, must be pre-approved by superintendent.

One project to include mortise & tenon joints. One project must include two or more scrolls & collar joints.

Division V: Advanced

Design and create a 12" square grate that includes the following elements, judged on artistic content and craftsmanship.

Mortise & Tenon joint(s), Twists(s), Scroll(s), Rivet or collar joint(s)

Division VI: Advanced continued

Handmade jig and sample piece made with jig. Must be pre-approved by superintendent. Sample forge weld project.

Division VII: Advanced continued

Forge welding: Choose one of the following projects - chandelier with basket weave and candle cups and drip pans; table of mixed media (glass or wood top), must include forge welded elements; flower with 2 or more branches forge welded, placed in a hammered copper vase.

Division VIII: Artistic

Use your creativity to make anything you want to be judged. This category has no division boundaries. However, you must have a division entry to exhibit in this category.

Poster Project: All divisions to be judged separate from metal projects. Must relate to history or processes of blacksmithing. First year members are required to do a poster. See general poster requirements.