

# Project Title: Blacksmithing

## Description:

The 4-H blacksmithing projects is open to youth in grades 6 and above, due to the safety issues of working with hot metal. 4-H'ers will learn basic blacksmithing skills the first year and build on those skills the subsequent years in the project.

## State Fair Entries:

No state fair entries.

## Exhibit Guidelines:

1. The judging of the Blacksmithing projects will be done during Exhibit Hall judging.
2. Blacksmithing divisions are not based on grade level, but on experience level.
3. Every member must complete divisions in order before advancing to the next division. Members are allowed to appeal to Extension Educator to move on to advanced divisions.
4. In addition to the division project, each member will include a project general record sheet. The record sheet will contain information about the process, costs, related tools and knowledge used to complete your project. This must be turned in with your Green Record Book.

## If workshops are available:

1. Each 4-H'er must have safety glasses and earplugs. NO OPEN TOED SHOES. Long sleeve cotton shirts and pants must be worn. No polyester.
2. There will be a fee to participate in this project to help cover the cost of supplies.

## Exhibit Class Guidelines:

### Educational Exhibits

Each division of project must demonstrate listed skills as well as completed project. All basic skills items and project must be attached to a 12"x12" solid backed wood display board with each piece labeled.

#### *Level 1 (1<sup>st</sup> year in project, basic skills)*

Basic Skills: Drawing a point, twist, 90 degree bend, scrolls

Project: Make an "S" hook that is 6" long with a 1 1/2 twist, a lid lifter with a twist, or a spiral candle holder with a twist.

#### *Level 2 (2<sup>nd</sup> year in project, basic skills continued)*

Basic Skills: Riveting, Slitting, Drifting, Punching and Upsetting

Project: 4-H'er will make a wall mount key rack with split scrolls and rivets. Students will forge a punch to make the holes for the rivets.

#### *Level 3 (3<sup>rd</sup> year in project, intermediate)*

Basic Skills: Tool-making

Project: 4-H'er will make a trivet with leaves and collars. Students will make a jig to make the trivet.

#### *Division 4 (4<sup>th</sup> year in project, intermediate continued)*

Project: 4-H'er will make a slot punch and forge a hammer.

*Division 5 (5<sup>th</sup> year in project, advanced)*

Project: Using your creativity, design and make a project to be exhibited. The project should showcase your creativity and skills. Designs must be approved by Extension Educator. The design must include a working sketch.

*Division 6 (6<sup>th</sup> year in project, advanced)*

Project: Using your creativity, design and make a project to be exhibited. The project should showcase your creativity and skills. Designs must be approved by Extension Educator. The design must include a working sketch.

*Artistic*

This category had no division boundaries. However, you must have a division entry to be able to exhibit in this category.

Project: Use your creativity to make anything you want to be judged, with approval of Extension Educator.