



4-H Metalworking Judging Sheet

Member Name: _____

County: _____

Jr. ____ Int. ____ Sr. ____ Yrs. in Project: _____

Exhibit: Completed Metalworking e-Record presented in a sturdy binder, a set of three welded joints (Unit 1 only) and an exhibit project completed during the project year. Exhibit will be evaluated on the quality of information completed in e-record (25 percent) and quality of the exhibit (75 percent).

American System Placing: (Check One)
Champion
Reserve Champion
Placing 3-10
Grand Champion
Reserve Grand Champion
Danish System Award: (Check One) (For County Use Only)
Blue
Red
White
Project Level: (Check One)
Introduction to Welding Unit 1
Metal Fabrication Unit 2
Advanced Metal Fabrication Unit 3
Large Exhibit Fabrication Unit 4

Criteria	Complete	Not Complete	Comments
E-Record			
Record Cover			
Project Goals			
What 4-H projects are you taking this year?			
What activities helped you learn the skills for the project? (workshops, project meetings, classes, contests, etc.)			
What leadership development experiences did you participate in?			
Citizenship/Community Service in 4-H			
Demonstrations/Presentations/Speeches			
Project Expense/Return on Investment			
Project Design (3 views & materials list)			
Goal Evaluation			
Project Photos (12 minimum total)			
Story			

Complete means that everything has been filled out. Not complete means that there is something missing and needs a comment as to what is missing or why it is not complete. Judges may use the back of the form for more comments.

Welded Joint Samples (UNIT 1 ONLY)

Criteria	Complete	Not Complete	Comments
3 Weld Joints (Lap, Butt and Tee)			
Appropriate Material (type, length & thickness)			
Criteria	E	G	F
Accuracy of Joint (Level, square and centered)			
Welding Bead Appearance (removal of slag, soot and/or spatter, no chipping dents)			
Quality of Welds (Even width, proper height, travel speed & penetration of bead)			

Metalworking Project (ALL UNITS)

Appropriate Tools Used (Welding process, cutting tools, dressing tools, hand tools, etc.)				
Accuracy of Cuts (Accurate measurements, free of slag or burrs)				
Difficulty and Precision of Joints (Simple or compound angles, multiple joints)				
Proper Welding (Even width, height and travel of bead, penetration of bead)				
Welding Bead Appearance (removal of slag, soot and/or spatter, no chipping dents)				
Proper Metal Used for Project (Proper size, thickness, weight for project)				
Functional and Attractive Project (useful design, ease of use, aesthetics)				

E = Excellent G = Good F = Fair N/I = Needs Improvement – must have comments

Revised 2024

Unit 4 Display Board Score Sheet Continues On Back

Display Board (UNIT 4 ONLY)					
Criteria	E	G	F	N/I	Comments
Project Title/ Description					
Left Side Panel - Prep Work Photos (4 minimum)					
Right Side Panel - Weld Photos (4 minimum)					
Center Panel – Finished Project Photos (4 minimum)					
Photo Size (5" x 7" minimum)					
Photo Captions (descriptive and appropriate)					
Overall Impression (educational value and aesthetics)					

E = Excellent G = Good F = Fair N/I = Needs Improvement – must have comments

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Additional Comments