

# DEPARTMENT #16 – YOUTH INDUSTRIAL ARTS

<b>Entries Close:</b>	Sunday, June 30, 11:59 p.m.
<b>Exhibits Received:</b>	Wednesday, July 10, 12 noon to 5:00 p.m.
<b>Drop Off Location:</b>	Rear entrance of Finley Building Enter through Gate 4 off Brookwood Ave.
<b>Exhibits Released:</b>	Tuesday, August 13, 12:00 noon to 7:00 p.m.
<b>Entry Fee:</b>	\$3.00 per entry
<b>Entry Limit:</b>	Two entries per exhibitor per class <i>Unless otherwise noted</i>
<b>Eligibility:</b>	Open to Junior Sonoma and Marin county residents. <i>Unless otherwise noted</i>

**Exhibits by Individual Students**

1. The following junior exhibitors are eligible in this department:
  - a. Students regularly enrolled in a school vocational class
  - b. 4-H, FFA or Independent junior members being mentored within the community.
2. Projects made from assembly kits are eligible only in classes so designated. The exhibitor should make component parts whenever possible and judges will rate accordingly.
3. Projects must have been started and completed during the 12-month period preceding the fair.
4. Exhibitors may not enter more than one article from the same pattern.
5. Although the exhibitor need not own the exhibits the student exhibitor must have been at least the major contributor to the building or repairing of the exhibit. NO entry may be shown for more than one calendar year.
6. Drafting and Drawing exhibitors are encouraged to submit a set instead of single items when it is obvious that the entry is a set.
7. Team Projects: consist of 2 or more students working on a classroom supervised project.

## YOUTH AG MECHANICS

**Division 1601 – Ag Mechanics Awards**

Overall Best of Show.....	\$10.00 + Rosette
FFA Outstanding Chapter Ag Mechanics* .....	AOK6 Ranch
FFA Outstanding Exhibitor Ag Mechanics* .....	AOK6 Ranch

FFA Outstanding Chapter Ag Mechanics Award is calculated based on points earned by each Chapters top 5 entries in this department. Outstanding Ag Mechanics Exhibitor will be calculated using a combination of points earned from placings and judges assessment of the overall quality of exhibitor's projects.

*\*Denotes award to be presented at Awards Ceremony.*

<b>Danish System of Judging</b>		
<b>Cash Awards Offered per Class</b>		
Blue	Red	White
\$6.00	\$4.00	Ribbon

# DEPARTMENT #16 – YOUTH INDUSTRIAL ARTS

## YOUTH ELECTRICAL WIRING SKILLS

### Division 1607 – Electrical Wiring Skills Awards

Best of Show Wiring .....	\$10.00 + Rosette
Best of Division.....	Ribbon
Best of Class.....	Ribbon

### Division 1608 – Electrical Wiring Skills

#### Class

1. Single Pole Switch Controls One-Half of a Duplex Receptacle, the other half of the Receptacle is “Hot”. Do not screw receptacles down to boxes.
2. A Hot duplex with a loop circuit beyond
3. A 3-Way Switch System
4. A 4-Way Switch System

**Note:** Due to the high number of entries in this category not all entries will be on display at the same time or for the entirety of the Fair.

Covers will not be placed on boxes, in order to make judging easier.

- Exhibitors who enter classes 1-4 may mount all four entries on a single display board.
- Please attach sturdy wire to back of display board - entries will be hung for display.

### Division 1609 – Metals – Awards

Best of Show Metals.....	\$10.00 + Rosette
Best of Division.....	Ribbon
Best of Class.....	Ribbon

## YOUTH METAL ARTS

### Division 1610 – Metals

#### Class

1. Sheet Metal Basic
2. Sheet Metal Fabrication Advanced (*Project made from 4 or more parts*)
3. Art Metal (*Free Form*) – One of a kind
4. Foundry Basic (*Single Items*)
5. Machine Work (*Individual parts or simple assemblies*)
6. Machine Work (*Advanced or assemblies of 3 or more parts*)
7. Advanced Metal Construction (*Assemblies w/ machined parts, welded or fastener construction*)
8. Welding Fabrication (*Arc Projects assembled by arc welding only*)
9. Welding Fabrication (*Gas Projects assembled by gas welding only*)
10. Bench Metal Construction (*Projects formed by bending and assembling w/ rivets and/ or bolts*)
11. Team Projects (*see rule 7 for details*)
12. Any Other (*please describe*)

**Special Contest: Circus Sculptures - additional premium - please contact Entry Office for entry information: [entryoffice@sonomacountyfair.com](mailto:entryoffice@sonomacountyfair.com).**

## MISCELLANEOUS INDUSTRIAL ARTS

### Division 1611 – Miscellaneous Industrial Arts

Best of Show Miscellaneous Industrial Arts .....	\$10.00 + Rosette
Best of Division.....	Ribbon
Best of Class.....	Ribbon

### Division 1612 – Multi-Process Industrial Arts (must use 2 or more processes)

#### Class

1. Small Project
2. Medium Project
3. Large Project

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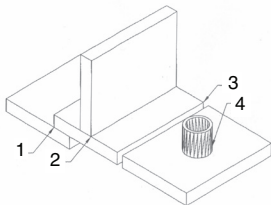
## YOUTH WELDING

### Division 1613 – Welding Awards

Best of Show.....	\$10.00 + Rosette
Best of Division.....	Ribbon
Best of Class.....	Ribbon

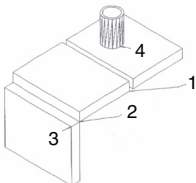
#### Rules

1. Each entry (weld coupon) must be on metal 5" long.
2. The weld must be a minimum of 4" long.
3. The start and stop on the weld must show.
4. The metal can be of any thickness.
5. The pipe or tubing is to be 2" long.
6. The pipe to flat weld does not need to be 4" long but must be continuous around the perimeter.
7. The weld can be done in any position.
8. Coupons entered in class 1-4 need to have 4 welds; class 5-6 need to have 3 welds.



#### OXYACETYLENE WELDING OAW BRONZE & STEEL FILLER METAL

1. LAP JOINT
2. TEE JOINT
3. BUTT JOINT (weld 1 side only steel only)
4. PIPE TO FLAT & OR TUBING TO FLAT (round, square or rectangular material only)



#### SHIELDED METAL ARC WELDING (SMAW)

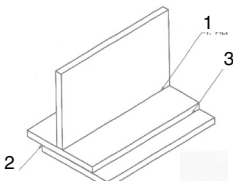
Use any of the following electrodes: AWS E6010, E6011, E6013, E7014, E7024, E7018

1. BUTT JOINT (100% Penetration) weld 1 side only
2. FILLET WELD
3. OUTSIDE CORNER JOINT
4. PIPE OR TUBING TO FILLET

GAS METAL ARC WELDING (GMAW) use solid hard wire only. Coupon same as SMAW

#### GAS TUNGSTEN ARC WELDING STAINLESS STEEL

1. FILLET WELD (Rod required) – TEE JOINT Filler metal required
2. LAP JOINT – No Filler Rod
3. LAP JOINT – Filler metal Required



#### ALUMINUM METAL

1. FILLET WELD (Rod required) – TEE JOINT Filler metal required
2. LAP JOINT – No Filler Rod
3. LAP JOINT – Filler metal Required

### Division 1614 – Welding

#### Class

1. Oxyacetylene Welding Coupon – Steel Filler Rod
2. Oxyacetylene Welding Coupon – Bronze Filler Rod
3. Shielded Metal Arc Welding – (SMAW) Coupon
4. Gas Metal Arc Welding – (GMAW) Coupon
5. Gas Tungsten Arc Welding – (GTAW) Coupon Stainless Steel Base Metal
6. Gas Tungsten Arc Welding – (GTAW) Coupon Aluminum Base Metal

# DEPARTMENT #16 – YOUTH INDUSTRIAL ARTS

## YOUTH WOODWORKING

### Division 1615 – Woodworking Awards

Best of Show Junior Woodworking .....\$35.00 + Rosette  
.....by SR Allied Builders, Inc. / Mike & Carla Boyd  
Best of Division.....Ribbon  
Best of Class.....Ribbon

### Division 1616 – General Woodworking (No floor furniture) (5-13 year old)

### Division 1617 – General Woodworking (No floor furniture) (14 year old and older)

#### Class

1. Laminated Cutting Board
2. Tool Box
3. Any First Year Project (please describe)
4. Any Other Small Project (please describe)
5. Any Other Medium Project (please describe)
6. Any Other Large Project (please describe)

### Division 1618 – Floor Furniture (5-13 year old)

### Division 1619 – Floor Furniture (14 year old and older)

#### Class

1. Small Project (please describe)
2. Medium Project (please describe)
3. Large Project (please describe)

### Division 1620 – Hand Tooled – No power tools of any kind, No Kits (5-13 year old)

### Division 1621 – Hand Tooled – No power tools of any kind, No Kits (14 year old and older)

#### Class

1. Bowl
2. Spoon
3. Spindle Turning
4. Any Other

### Division 1622 – Kits (5-13 year old)

### Division 1623 – Kits (14 year old and older)

#### Class

1. Bird Feeder
2. Bird House
3. Planter Box
4. Tool Box
5. Any Other (please describe)

### Division 1624 – Refurbished/ Repaired (5-13 year old)

### Division 1625 – Refurbished/ Repaired (14 year old and older)

#### Class

1. Small Project (please describe)
2. Medium Project (please describe)
3. Large Project (please describe)

#### SCORECARD FOR JUDGING

Appearance.....	20%
Workmanship.....	25%
Originality.....	20%
Neatness.....	10%
Utility.....	25%
TOTAL.....	100%

# DEPARTMENT #16 – YOUTH INDUSTRIAL ARTS

## YOUTH AG MECHANICS AUCTION

### Industrial Arts Auction Rules:

1. The following junior exhibitors are eligible to participate in this Auction:
  - a. Students regularly enrolled in a school vocational class
  - b. 4-H, FFA or Independent junior members being mentored within the community.
2. Only exhibits earning a first place (Danish System) ribbon will be eligible for the auctions.
3. Projects must have been started and completed during the 12 month period preceding the fair.
4. Projects must be completed upon receiving. No work, additions or embellishments can be done once the project is received at the fair.
5. Exhibitors must establish a reasonable minimum or starting bid, based on the value of their project and include this on their entry form. This price will be the starting bid if item is sold at auction – or the sale price listed for building sale items.
6. Exhibitors are limited to selling one Ag Mechanics project per year.
7. All items sold will be charged a 6% commission, to fund program costs and establish a contingency fund.
8. Exhibitors are encouraged to promote the auction and solicit buyers.
9. Exhibitors who sell items at live auction or during building sale, are required to turn in a thank you note for their buyer in order to pick up auction or sales proceeds check.
10. Youth member/Leader/Advisor will be notified as soon as possible after judging if item is selected for live auction.

### Live Auction Rules

11. The judges will select items to be sold in the live auction. Items will be sold on Tuesday, August 6 at 4:30 p.m. in the Wilford Ring.
12. Exhibitors who earn a spot in the live auctions are required to attend in uniform in order to present their item as it is being sold.

### Ag Mechanics Sale Rules

13. Items not selected for live auction will be available for sale to the public inside the Finley building throughout the Fair. A 6% commission will be charged for any item that sells. Exhibitors will be notified if items are sold.

## AG MECHANICS AUCTION

### Division 1626 – Ag Mechanics Auction Awards

Supreme Champion .....	Buckle by AOK6 Ranch
Supreme Champion .....	Banner by Sonoma County Fair
Reserve Supreme Champion .....	Buckle by Sonoma County Fair
Reserve Supreme Champion .....	Banner by Sonoma County Fair

### Division 1627 – Ag Mechanics Auction

#### Class

1. Project valued at \$249 or less (please describe)
2. Project valued at \$250 or more (*please describe*)