

DEPARTMENT J23
◆ S.T.E.M and S.T.E.A.M INTRODUCTION ◆
(Science, Technology, Engineering, Art and Math)

| | |
|--|------|
| ENTRY FORMS DUE → Monday, May 16, by 5:00 pm | 3:00 |
| DELIVER EXHIBITS TO → Community Bldg. , – Fri., June 17, pm to 8:00 pm OR Sat., June 18, 7:00 am-2:00 pm | |
| ENTRY LIMIT → None | |
| ENTRY FEE → \$1.00 Per entry per class | |
| PICK UP EXHIBITS → Monday, June 27 th 8:00 am-7:00 pm | |

DANISH SYSTEM OF JUDGING – CASH AWARDS OFFERED PER CLASS

| | | |
|-----------------|-----------------|-----------------|
| 1 ST | 2 ND | 3 RD |
| \$4.00 | \$2.50 | \$1.50 |

SECTION 254 ~ *Physical Sciences*

(Energy, Physics, Chemistry, etc.)

SECTION 255 ~ *Life Sciences*

(Natural Resources)

SECTION 256 ~ *Earth and Space Science*

(Astronomy, Geology, Climatology, etc.)

SECTION 257 ~ *Applications to Engineering and Technology*

(Robotics, Rockets, Drones, Mapping, Lego (engineering), Electronics,
Renewable Energy, etc.)

Class

- 1 Educational Poster, Summaries of work, Photos (2x3)
- 2 K-12 Class Projects, After School Program
- 3 Maker Projects, Engineering and Tinkering Projects

SECTION 258 ~ *S.T.E.M Awards*

Class

- 1 Best Of Show Physical Sciences ----- \$25 & Rosette
Sponsored by Kiwanis Club of Petaluma
- 2 Best Of Show Life Sciences ----- \$25 & Rosette
Sponsored by Tara Camgros
- 3 Best Of Show Earth And Space Sciences ----- \$25 & Rosette
Sponsored by SC Barns
- 4 Best Of Show Engineering & Technology Sciences ----- \$25 & Rosette
Sponsored by Kiwanis Club of Petaluma

DEPARTMENT J22
◆ HIGH SCHOOL INDUSTRIAL EDUCATION ◆

| | |
|--|------------|
| ONLINE ENTRIES DUE → Monday, May 16 th 11:59 pm | 3:00 pm to |
| DELIVER EXHIBITS TO → Community Exhibit Bldg. – Fri., June 17, 8:00 pm OR Sat., June 18, 7:00 am-2:00 pm | |
| PICK UP EXHIBITS → Monday, June 27, 8:00 am – 7:00 pm | |
| ENTRY LIMIT → Two entries per class | |
| ENTRY FEE → \$1.00 Per entry per class | |

DANISH SYSTEM OF JUDGING - STICKER RIBBON ONLY
 AMERICAN SYSTEM OF JUDGING - CASH AWARDS OFFERED PER CLASS

| | | |
|-----------------|-----------------|-----------------|
| 1 st | 2 nd | 3 rd |
| \$20.00 | \$15.00 | \$12.00 |

The Industrial Education Department will be judged by the Danish System of Judging first then the Judge will go back through all the blue group winners by class and place them by the American System of Judging, 1st-3rd.

RULES:

1. Only projects made in school under the supervision of an Industrial Arts or Vocational Trade and Technical Teacher may be entered.

2. Projects made from assembly kits are not eligible (except where noted). Component parts should be made by exhibitor whenever reasonably possible, and judges will rate accordingly.
3. Projects must have been started and completed during the preceding school year.
4. A project may be entered for one award only.
5. No exhibitor may enter more than one article made from the same pattern.

◆ DRAFTING ◆

SECTION 216 ~ *Illustrative CAD Mechanical Drawing*

Single sheet entry in perspective or isometric view or 3D models with shading or color

- | | |
|-----------------|------------------|
| Class | Class |
| 1 Grades 9 & 10 | 2 Grades 11 & 12 |

◆ RESEARCH PROJECTS ◆

RULES:

1. The object of the Research Project is to have students work with realistic problems dealing in Architecture and Engineering to develop problem solving skills.
2. All projects entered must be approved by the student's Voc-Ed teacher.
3. Exhibited projects and research papers shall be the result of the student(s) own efforts.
4. The official maximum size for the Research Projects is 48 inches wide by 30 inches deep (the distance from front to back) by 6 1/2 feet high.
5. Research papers are to be typed. The problem statement and solution statement must be included in the research papers.

SECTION 224 ~ *Research Projects*

- Class
- 1 Individual projects
 - 2 Teams of 3-4 students
 - 3 Teams of 5 or more students

◆ METAL WORK ◆

SECTION 225 ~ *Metal Work Grades 9 & 10*

SECTION 226 ~ *Metal Work Grades 11 & 12*

- 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 Foundry (3 or more parts which require machining and/or fabrication)
 - 6 Machine work (individual parts or simple assemblies)
 - 7 Machine work (Advanced or assemblies of 3 or more parts)
 - 8 Advanced Metal Construction (Assemblies with machined parts, welded or fastener construction)
 - 9 Welding Fabrication (Arc Projects assembled by arc welding only)
 - 10 Welding Fabrication (Gas Projects assembled by gas welding only)
 - 11 Bench Metal Construction (Projects formed by bending and assembling with rivets and/or bolts).
 - 12 Basic Wrought Iron (Assemblies of small parts & scrolls welded or riveted) - decorative light duty items
 - 13 Basic Wrought Iron (Assemblies of large parts & scrolls welded or riveted) - tables, chairs, racks, shelves, etc.
 - 14 Any Metal Article (kit)

◆ WOODWORKING ◆

SECTION 227 ~ *Woodworking Grades 9 & 10*

SECTION 228 ~ *Woodworking Grades 11 & 12*

- Class
- 1 Any Item, please specify

SECTION 229 ~ *Industrial Education Awards* (Do not enter)

- Class
- 1 Best Of Show Drafting----- \$25 & Rosette
Sponsored by Richard R. Van Anda

- 2 Best Of Show Metal Work----- \$25 & Rosette
Sponsored by In Memory of Carlton "Bud" Liddle
- 3 Best Of Show Woodworking----- \$25 & Rosette
Sponsored by Adrienne and Martin D. "Buzz" Rodgers
- 4 Best Of Show Research Projects ----- \$25 & Rosette
Sponsored by In Memory of Adele & Gus Kovats

SCORECARD FOR JUDGING INDUSTRIAL EDUCATION

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

DEPARTMENT J23
◆ Literary Arts ◆

| | |
|--|-----------------|
| ONLINE ENTRIES DUE → Monday, May 16 th 11:59 pm | |
| DELIVER EXHIBITS TO → Community Exhibit Bldg., Fri., June 17, pm to 8:00 pm OR Sat., June 18, | 3:00 |
| | 7:00 am-2:00 pm |
| PICK UP EXHIBITS → Monday June 27, 8:00 am to 7:00 pm | |
| ENTRY LIMIT → Unlimited | |
| ENTRY FEE → \$1.00 per entry | |

AMERICAN SYSTEM OF JUDGING
1ST – 5TH RIBBONS OFFERED PER CLASS

RULES

1. Poems & writing must be the original literary composition of a single exhibitor.
2. Please submit your entry on a plain 8 ½ x 11 piece of paper for judging and a second copy of the poem must be submitted at the same time that is matted and ready to hang for display only.
3. Display size not to exceed 16" x 20". Mounting size must not exceed 18" x 22".
4. No name should appear on judging copy. Name and address of exhibitor must be on back of each entry.
5. All entries should be titled, with the title appearing on the entry form and judging copy.
6. Entries must be written in English
7. Entries must be typewritten or computer generated; entries will not be accepted if hand written.
8. Definition of:
Traditional: poetic work that adheres to a definite verse structure or set of characteristics. (sonnet, haiku, limerick, ballad, etc.)
Free Verse: poetry that is free from limitations of regular meter or rhythm, and does not rhyme with fixed forms.

SECTION 272 ~ Poetry

- Class
- 1 Traditional Poetry
 - 2 Free Verse Poetry
 - 3 Fair Theme: "Everybody's Fair"
 - 4 Any other, please describe

SECTION 274 ~ Creative Writing

- Class
- 1 Short Story (1 page maximum)
 - 2 Fair Theme: "Everybody's Fair" (1 page maximum)

SECTION 277 ~ Literary Arts Awards (Do Not Enter)

- Class
- 1 Best of Show - Poem.....\$25 & Rosette
Sponsored by Adrienne and Martin D. "Buzz" Rodgers
 - 2 Best of Show – Creative Writing.....\$25 & Rosette
Sponsored in Memory of Gus & Adele Kovats

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DEPARTMENT J23
◆ JUNIOR COMPUTER SCIENCE ◆

| | |
|--|------|
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| DELIVER EXHIBITS TO → Community Exhibit Bldg. , Fri., June 17, pm to 8:00 pm OR Sat., June 18, 7:00 am-2:00 pm | 3:00 |
| PICK UP EXHIBITS → Monday, June 27, 8:00 am to 7:00 pm | |
| ENTRY LIMIT → None | |
| ENTRY FEE → \$1.00 Per entry per class | |

DANISH SYSTEM OF JUDGING - CASH AWARDS OFFERED PER CLASS

| | | |
|--------|--------|--------|
| 1st | 2nd | 3rd |
| \$4.00 | \$2.50 | \$1.50 |

SECTION 293 ~ *Computer Science*

- Class
- 1 Using word processing and at least one other application (spreadsheet, paint or draw program, etc.) create an integrated document. Print-outs should be no larger than 8 1/2" x11".
 - 2 Using a word processing program, create an 8 1/2"x11" poster. Use more than three different fonts in designing your poster. Do not include clip-art in the poster.
 - 3 Create a picture (graphic) on the computer. Printouts should be no larger than 8 1/2" x11". Graphic should be completely original. Do not use clip-art or scanned art in your picture.
 - 4 Create a poster on the computer using clip-art. Original artwork may be included. Print-outs should be no larger than 8 1/2"x11". Standard poster size.
 - 5 Website Design (see below for rules)

Rules for Website Design.

1. Entries must be prepared by the exhibitor.
2. Entries must be functional and ready to be judged between May 22nd and June 20th.
3. Entry must include and 8 1/2"x11" framed picture/copy of the home page.
4. **All entries must include the website address on the entry form.**
5. All entries must have been made, collected, designed, or prepared within 1 year of opening date of the fair unless otherwise noted.

SECTION 294 ~ *Computer Science Awards* (Do Not Enter)

- Class
- 1 Best Of Show ----- \$25 & Rosette
Sponsored by Stephen J Lafranchi & Associates, Inc.

COMPUTER SCIENCE JUDGING SCORECARD

APPEARANCE; Total Effect-----50%
CREATIVITY & ORIGINALITY-----30%
DEGREE OF DIFFICULTY-----20%
TOTAL-----100%

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DEPARTMENT J23
◆ **YOUTH WELDING** ◆

ONLINE ENTRIES DUE → Monday, May 16th 11:59 pm
 DELIVER EXHIBITS TO → **Community Exhibit Bldg.**, – Fri., June 17,
 3:00 pm to 8:00 pm **OR** Sat., June 18,
 7:00 am-2:00 pm
 PICK UP EXHIBITS → Monday, June 27, 8:00 am to 7:00 pm
 ENTRY LIMIT → 2 entries per exhibitor per class
 ENTRY FEE → \$1.00 Per entry per class

DANISH SYSTEM OF JUDGING - CASH AWARDS OFFERED PER CLASS

| | | |
|--------|--------|--------|
| 1st | 2nd | 3rd |
| \$5.00 | \$3.00 | \$2.00 |

NOTE: Entries in the Garden Art Category will have the ability to be purchased. Please list a price on your entry form, or NFS (not for sale) if you do not want to sell your entries.

SECTION 234 ~ 1st Year Welding ~ Oxyacetylene

Class _____ Class _____
 1 Any, please describe

SECTION 235 ~ 2nd Year Welding ~ Arc or Oxyacetylene

Class _____ Class _____
 1 Any, please describe

SECTION 236 ~ 3rd Year Welding ~ Arc, Oxyacetylene or Mig

Class _____ Class _____
 1 Any, please describe

SECTION 237 ~ Welding Awards (Do not enter)

- Class _____
- 1 Best Of Show 1st Year----- \$25 & Rosette
In Memory of Marvin Gravesen by Justin, Kaitlyn, Lisa Gravesen
 - 2 Best Of Show 2nd Year----- \$25 & Rosette
Sponsored by Kiwanis Club of Petaluma
 - 3 Best Of Show 3rd Year----- \$25 & Rosette
Sponsored by Mary Ellen and Richard Courier

DEPARTMENT J23
◆ **JR WOODWORKING** ◆

ONLINE ENTRIES DUE → Monday, May 16th 11:59 pm
 DELIVER EXHIBITS TO → **Community Exhibit Bldg.**, – Fri., June 17,
 3:00 pm to 8:00 pm **OR** Sat., June 18,
 7:00 am-2:00 pm
 PICK UP EXHIBITS → Monday, June 27, 8:00 am to 7:00 pm
 ENTRY LIMIT → 2 entries per exhibitor per class
 ENTRY FEE → \$1.00 Per entry per class

DANISH SYSTEM OF JUDGING - CASH AWARDS OFFERED PER CLASS

| | | |
|--------|--------|--------|
| 1st | 2nd | 3rd |
| \$5.00 | \$3.00 | \$2.00 |

SECTION 231 ~ Woodworking

- Class _____
- 1 **1ST YEAR WOODWORKING**
 Utility stool, spice rack, drawer divider, tool box,
 bolt and screw rack, etc.
 - 2 **2ND YEAR WOODWORKING**
 Tool holder, hardware display, board of com
 wood fasteners, tool box, miter box, tool rack, etc..



- 3 **3RD YEAR WOODWORKING**
Sawhorse, large show box, wall desk, dog house, table, bench, etc.

SECTION 232 ~ *Woodworking Awards* (Do Not Enter)

Class

- 1 Best Of Show Woodworking Exhibit ----- \$25 & Rosette
Sponsored by McClure Dairy Inc
- 2 Youth Craftsman Award ----- \$25 & Rosette
Sponsored by Megan Wilson & Nick Pulley