



Science Fair – Department YSF - Use Form F (individual) / Form G (school) SUPERINTENDENT

George Muncaster (602) 505-0104

If you are unable to reach the department superintendent please call the Fair office at 602-252-0717

- Entry Fees:** \$1 per exhibitor
Note: EACH Individual and EACH Member of a Team MUST pay the \$1 per student Entry Fee - NO EXCEPTIONS! (Teachers, your students may qualify for the S.P.A.R.K. Program)
- Entry Deadline:** April 1, 2009
- Receiving:** Monday, April 13th, 2009, 3:00pm - 7:00pm
Use 17th Ave & McDowell Road entrance
- Location:** Commercial Building
- Release:** Monday, April 20, 2009, 3:00pm - 7:00pm
- Credential Policy:** Refer to 2009 Credentials Policy for fair pass information.

Rules: Exhibitors entering this department must abide by the following rules:

General Rules and Regulations Department Rules

Please read and understand all rules before entering this department

ENTRIES INTO THIS DEPARTMENT, USE:

FORM F- INDIVIDUAL or FORM G - SCHOOL

Entries must be received in the Fair office no later than April 1, 2009. Entry fees and forms can be mailed or delivered to:

Maricopa County Fair
1826 W. McDowell Road
Phoenix, AZ 85007

JUDGING: Tuesday, April 14, 2009, 9:00am

SCIENCE FAIR DEPARTMENT RULES

1. Science fair exhibitors must be residents of Maricopa County.
2. Exhibits must have been prepared during the current school year or significant improvements must have been made during the current school year to an ongoing, multiyear, project. All project work and the project Exhibit must be the work of the student(s) entering the Exhibit. A project entered as a Team project in a School Science Fair MUST also be entered as a Team project in the Maricopa County Science Fair. A project entered as an Individual student project in a School Science Fair MUST also be entered as an Individual project in the Maricopa County Science Fair. No Kits Or Preamsembled Models May Be Used (except as the "Control" in an Engineering Project).
3. Entry Forms from the current Premium Book ONLY may be reproduced in any matter that provides you with enough forms to serve your needs. The Entry Form must be signed by the

student AND by a parent OR teacher. These signatures certify that all applicable Maricopa County Fair General Rules and Regulations and all Science Fair Department Rules have been followed.

4. Exhibits must fit within a space not exceeding 36" wide (side to side) by 24" deep (front to back) by 72" high. All project materials must fit on a tabletop within this volume. Larger projects will not be accepted.

5. Exhibits should be sturdily constructed and must be self-contained. Display Boards must be sufficiently sturdy to insure they do not fall over.

6. Exhibitors requiring 110VAC electrical power must supply a 25ft extension cord so the Judges can power them up for judging. Once judging is completed, 110VAC power will be disconnected for the duration of the Fair.

7. Dangerous chemicals, hot-plates, unsafe electrical work or any other condition judged unsafe will result in disqualification and elimination of the Exhibit in question prior to judging.

8. **LIVE ANIMALS ARE NOT ALLOWED** in the Science Fair.

9. Do not leave any valuable items (camera, radio, etc.) with the Exhibit. The Fair is not responsible for loss or theft of any equipment or any other part of the Exhibit. **PLACE YOUR NAME ON EVERYTHING CONTAINED IN YOUR EXHIBIT.** Ex: back of display board, project report, books, equipment, photos, etc.

10. Normal wear and tear on exhibits is to be expected during judging and when the Fair is open to the public. Exhibitors should design exhibits to survive during set up, judging and several days of public viewing. Exhibitors must care for their exhibit (watering plants, etc.) as needed, for the duration of the Fair.

SCIENCE FAIR EXHIBITORS GUIDELINES:

All Exhibits will be judged competitively against all other entries in the same Division/Class. Winning projects are those that best demonstrate that the Exhibitor has:

1. Included a Project Notebook documenting all efforts performed.
2. Followed Science Fair Guidelines and Rules
3. Understood the Judging Criteria
4. Entries should demonstrate that exhibitors have:
 - Chosen an appropriate problem
 - Stated a hypothesis related to the problem
 - Developed a plan to test the hypothesis
 - Reached a conclusion about the hypothesis
 - Gathered data and documented all work performed on the project in an easily readable form.
 - Summarize the project by a display on a standard Project Board and document all work in a written Project Report.

YOUTH - SCIENCE FAIR - DEPARTMENT YSF

5. Entries must consist of a self-explanatory display - standing upright on a table and fitting within the maximum dimensions posted in rule #4.

6. Exhibits must be brought to Science Fair Receiving on the dates and times noted above. Exhibits will be left to be judged and viewed by the public for the duration of the Fair. Exhibits must be picked up during the specific Release dates and times noted above or they will be disposed of by the Fair Staff.

EXHIBIT DIVISIONS:

Survey Projects: solicit responses from multiple persons, use appropriate statistical methods to analyze the raw data, report valid results, and display results and conclusions using both data tables and summary plots/graphs.

Science Projects: should demonstrate an understanding of how biological or physical systems function or operate.

- Biology
- Chemistry
- Physics - including Earth and Space Sciences

Engineering Projects: find processes which results in a better ~ or even the "best" ~ way to do something. Projects focusing on improving the performance, cost, or construction, of a device, a product, or software program, or service. Examples:

- Ways to achieve better performance: longer flight - higher speed - longest operation using the same power source.
- Lowering the weight of a device, keeping the same performance.
- Simplifying construction methods, keeping the same performance: fewest number of steps or smallest amount of materials.
- Identify a cheaper way to make an item accomplishing a stated goal, etc.

Environmental Issues Projects: Primarily address environmental issues and interactions and or interdependencies between the earths' (changing) environment and inhabitants.

DIVISION 4400: Survey Projects

DIVISION 4401: Biology

DIVISION 4402: Chemistry

DIVISION 4403: Engineering

DIVISION 4404: Physics

DIVISION 4405: Environmental Issues

List a division and class number for each exhibit entry. Ex.: 6th grade Team - Chemistry exhibit is entered in division 4402 - class 103.

<u>Class</u>	<u>Description</u>
101	Individual: junior (4 TH through 8 th grade)
102	Individual: senior (9 th through 12 th grade)
103	Team: junior (4 TH through 8 th grade)
104	Team: senior (9 th through 12 th grade)

BEST OVERALL SCHOOL:

A \$200 award will be given to one (1) School Science Department based upon Judges' evaluation of the number and quality of all entries received in the Science Fair.

JUDGING CRITERIA (points):

Creative Ability	0-30
Scientific Thought	0-30
Thoroughness	0-15
Skill	0-15
Clarity	0-10
..... Total	100

AWARDS:

Ribbons: Awarded by the judges to each exhibit in each division and class, based on overall quality (total points).

Science Fair Award Ribbons:

- First Place,
- Second Place,
- Third Place,
- Fourth Place,
- Fifth Place,
- Participant.

Rosettes: A Rosette may be awarded to the Best of Class entry or entries in each Class and Lot, based on the Judges decision regarding the overall quality of the Exhibit. Science Fair Award Rosettes are: Blue Rosette, and Red Rosette.

OTHER SCIENCE FAIR AWARDS: Other Awards for the Maricopa County Science Fair may be established prior to the 2009 Science Fair. Potential award sponsors should contact the Science Fair Superintendent, George Muncaster at (480) 505-0104.

SPECIAL WATER AWARDS:

A maximum of five Special Water Awards will be made to individual Science Classes or Science Clubs for projects which have as their major focus, or which strongly involve, Water. All water-related Individual and Team Exhibits in ALL Divisions and All classes are eligible for these awards, and the eligibility criteria will be applied to qualify the maximum number of projects possible for these awards. Qualifying exhibits in all classes and lots will be judged for Division/Class Awards and also separately for the Special Water Awards.

Special Water Award winners will be determined by Judges' assessment of the quality and depth of work performed.

Qualifying exhibits will compete for the following:

*Cash Award

1st Award	\$100
2nd Award	\$ 75
3rd Award	\$ 50
4th Award	\$ 50
5th Award	\$ 25

*Special Award Rosette

Don't forget to donate to the Maricopa County Fair Scholarship Fund!