

SCIENCE

NONPERFORMANCE EVENT

Science projects may be done by one or two contestants and must have been started after the completion of the previous International Student Convention.

Types of Entries

1. **Collection** - classification and display. Examples: rocks, insects, and leaves. Man-made objects such as coins, stamps, and arrowheads are not allowed. **Only the portion of work that has been accomplished after the completion of the previous International Student Convention may be submitted.**

2. **Research** - Develop a hypothesis, perform an experiment, record results, write your conclusion, and prepare a display to exhibit your work (e.g., how light helps a plant grow). This event is not a library research paper.

3. **Engineering** - Build electronic equipment, optical devices, solar energy converter, etc., using scientific principles to perform a task. Exhibit should include plans, diagrams, schematics, parts list, etc., so that another person could take your plans and duplicate your project. Do not use commercial kits.

4. **Theoretical** - An exhibit displaying a discussion of a scientific principle, concept, technique, or theory using charts, graphs, diagrams, photographs, audio-visual, or other visual aids.

Checklist for Science:

1. Contestant or contestants may enter one exhibit in each event.
2. Each entry must be fully completed and ready for exhibition.
3. A list shall be submitted identifying any work included in the display that is not the work of the contestant (such as a specially machined component or electronic test equipment). Experiment notebooks and other supporting data should be available for the judges. Photos which include people must adhere to contestant dress standards.
4. Exhibits must occupy a table or floor area no wider than 48 inches.
5. If electrical power is required, 120 volt AC will be available. All switches and cords must be U.L. or C.S.A. approved. The exhibit must be wired in a safe manner.
6. No entry creating a safety hazard will be allowed. Dangerous chemicals; offensive odors; explosives; open flames; or live animals, reptiles, or insects must not be exhibited. Exhibits requiring running water are not permitted.
7. Contestant or contestants will set up their exhibit and then leave the area.
8. A.C.E. is not responsible for loss of or damage to any exhibit.
9. Attach the following forms:
 - a. Judge's Forms (CF24). Three (3) copies with name, school name, customer number, address, and entry filled in. These are required for Regional Convention only.
 - b. Experiment notebook and other supporting data.
10. Entries must have a 3" x 5" card securely attached to each piece of project with the following information neatly printed or typed: entry, student's name, school name, customer number, school address, city, state, and ZIP code.
11. Entries involving computers should have self-booting and menu driven or self-running software.

CRITERIA

Originality - Creative approach is given to the project.

Scientific thought - Accuracy is exhibited in displaying a scientific fact or principle. Consideration is given to probable amount of effort and study that went into the project.

Workmanship - Quality is shown in the construction of the exhibit including the neatness of labels and descriptions.

Thoroughness - The project is presented completely and carefully.

Clarity - The average person can understand the exhibit clearly.

Degree of difficulty - Consideration is given to the level of difficulty involved and time spent to prove the project.

On your accompanying paper:

1. Have you stated your purpose, hypothesis, or reason for your project?
2. Have you written down the process or steps used in solving or approving the problem (or hypothesis) or included an illustration of how your project works?
3. Have you written out the conclusion or what has been proven or illustrated?
4. Have you used references and quotes, **in your own words**, that have expressed what has taken place?
5. Have you given a Scriptural application or reference for your project?
6. Have you given a brief history of the discovery/invention or the hypothesis/facts you are using in your project? Have you shown how the discovery/invention has advanced to today's use? What (in your opinion) is its future use?
7. Have you done your very best, using all resources available, to make your display eye-catching and interesting?
8. Does your display clearly agree with and illustrate what your paper discusses?
9. Does your project provide useful information or is it only amusing?

HINTS FROM THE SCIENCE JUDGES

The local public library often has books on the subject of science projects or Science Fairs. These books will give the student many helpful ideas, but the student still must be creative in his project. Labels that are neatly lettered and attached will enhance the project.