

Category –Science*

* denotes that event may be entered as a group

Collections

Demonstrations/Models

Experiments

Research

General Information:

Each entry must be complete and ready for display. Displays must occupy a table or floor space no larger than four feet by 30 inches. Model kits are not permitted.

If electricity is needed, designate this on registration form. All switches and cords must be U.L. or C.S.A. approved and projects must be wired in a safe manner. **NO ENTRY CREATING A SAFETY HAZARD WILL BE PERMITTED.** The following are not allowed as part of the project: dangerous chemicals, offensive odors, explosives, open flames, running water, and live animals or insects.

Helps to consider:

Entries must be ready for display and have a written explanation available. Photographs, charts, graphs, diagrams or other audio-visual aids can add clarity to a display. Adults may advise, but must not build any part of the display that the child is capable of building.

Collections should be planned with an orderly classification in mind. An explanation of the scientific relevancy of the items should be known by the student. Models, too, should have a clear scientific reason for entry.

Research could include biographies of people important in scientific fields, or the study of events, concepts, principles or medical topics. Students should include all sources, and be able to explain the scientific relevancy of their chosen topic. Audio-visuals may increase the effectiveness of their research report.

Experiments should include a hypothesis, an experiment testing the hypothesis, recorded data, and a conclusion. The display should exhibit the process of the experiment as well as the results. The entry may represent any aspect of science: earth, space, biology, physics, chemistry, astronomy, zoology, etc.

Collections

Collections – include an accumulation of like or related items with an orderly classification. The items in a collection must be naturally occurring objects, or man-made objects with scientific significance.

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Judging Criteria

Originality:

- ideas and concepts must be student's
- unique subject matter or unusual approach

Thought/Clarity:

- accuracy of displaying scientific facts or principles apparent
- entry clearly understood by average person

Workmanship:

- effort and study went into the project as well as the display
- quality of construction/research
- attention to detail

Presentation:

- demonstrates knowledge of processes and events studied
- development of theme/idea

Demonstrations/Models

Models – These should be an example or demonstration of a naturally existing phenomena or object (heart, eye, etc.), or a representation of a man-made object (machine or structure).

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- attention to detail

Presentation:

- demonstrates knowledge of processes and events studied
- development of theme/idea

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**Experiments**

**Experiments – include a hypothesis, experimentation, data, and conclusion using scientific principles.**

**Rules:**

Each entry must be complete, ready for display, and include a written explanation. The work must be the sole work of the student. Displays must occupy a table or floor space no larger than four feet by 30 inches. *Experiment kits are not permitted.*

Research should be well documented and sources listed. Experiments should show thorough documentation of the experimental process and conclusion. Reports could be presented with audio/visual aids or as an exhibit.

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**Judging Criteria****Originality:**

- ideas and concepts must be student's
- unique subject matter or unusual approach

**Thought/Clarity:**

- accuracy of displaying scientific facts or principles apparent
- entry clearly understood by average person
- correct use of scientific method used in experiment

**Workmanship:**

- effort and study went into the project as well as the display
- quality of construction/research
- attention to detail

**Presentation:**

- demonstrates knowledge of processes and events studied
- development of theme/idea
- clear representation of data and conclusions

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## Research

**Research – Research report and display on people, events, objects or principles demonstrating scientific thought.**

### **Rules:**

Each entry must be complete, ready for display, and include a written explanation. The work must be the sole work of the student. Displays must occupy a table or floor space no larger than four feet by 30 inches.

Research should be well documented and sources listed. Experiments should show thorough documentation of the experimental process and conclusion. Reports could be presented with audio/visual aids or as an exhibit.

If electricity is needed, designate this on registration form. All switches and cords must be U.L. or C.S.A. approved and projects must be wired in a safe manner. **NO ENTRY CREATING A SAFETY HAZARD WILL BE PERMITTED.** The following are not allowed as part of the project: dangerous chemicals, offensive odors, explosives, open flames, running water, and live animals or insects.

The work must be the sole work of the student.

### **Judging Criteria**

#### **Originality:**

- ideas and concepts must be student's
- unique subject matter or unusual approach

#### **Thought/Clarity:**

- accuracy of displaying scientific facts or principles apparent
- entry clearly understood by average person
- correct use of scientific method used in research

#### **Workmanship:**

- effort and study went into the project as well as the display
- quality of construction/research
- attention to detail

#### **Presentation:**

- demonstrates knowledge of processes and events studied
- development of theme/idea
- clear representation of data and conclusions