Judging

A panel of men and woman who have background in science, engineering, and technology will judge the Energy Fair. Each competitor will have an interview with two or more judges.

During judging, competitors will be asked to describe their investigation and the experimental process they carried out. Additional questions will be asked.

Special attention is placed on knowledge and enthusiasm for the project, as well as the student's oral presentation skills. The judges will evaluate the student's:

- Ability to communicate the Purpose
- Experimental Plan
- Ability to identify essential experimental components (I.V., D.V. & constants)
- Methodology for data collection
- Conclusion drawn from data

Other key areas evaluated are:

- Originality of idea,
- Quality of exhibit display, &
- Clarity of exhibit

When: Saturday, September 11, 2011
Where: Navajo Energy EXPO Tent
What Time: 2:00pm until 7:00pm

PRIZES WILL BE GIVEN AWAY!

The Navajo Nation, Special Events Office, and the Energy Advisory Committee and its members will not be held responsible for any loss due to accidents, theft, bodily injury, personal injury and including loss of property.

NAVAJO NATION FAIR

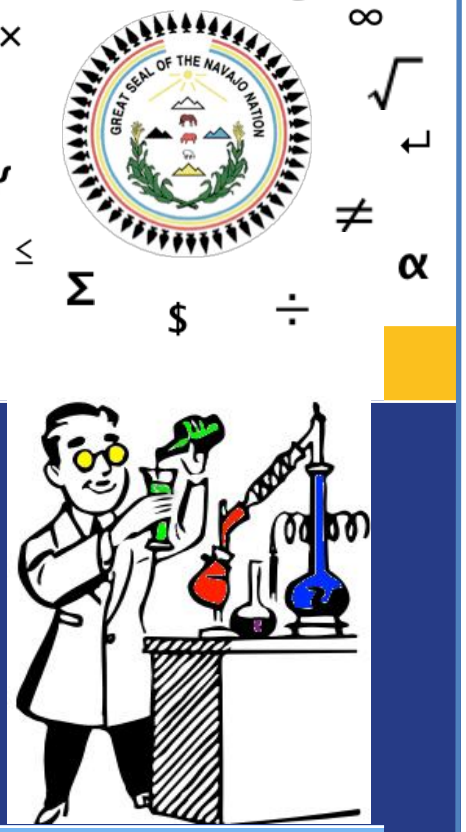
NAVAJO NATION MUSEUM

Energy Advisory Committee
Navajo Energy EXPO
PO Box 7440
Window Rock, AZ 86515
(928) 871-7947
michelle@navajonationmuseum.org
www.navajonationfair.com

65th Navajo Nation Fair

Navajo Energy EXPO Science Fair

Science, Engineering, and Technology Competition and Demonstration



The 65th Annual Navajo Nation Fair – Science Fair Competition

The Energy EXPO at the 65th Annual Navajo Nation Fair will host a Science Fair Competition.

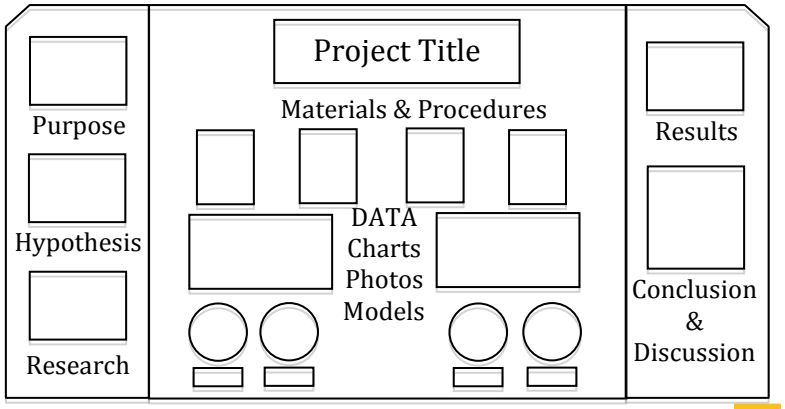
The Science Fair is conducted for the purpose of motivating and encouraging youth and adults in science, engineering, and technology.

This competition is "OPEN CATEGORY" and each participant is challenged to utilize the scientific method to conduct a controlled investigation.

While competitors are encouraged to seek assistance from parents, guardians, teachers, and community members in choosing a topic, conducting research, and gathering materials, projects are expected to reflect the work, thoughts, and efforts of the competitors.

DISPLAY BOARD

- Projects must be displayed on a standard stand-alone tri-fold board
- Boards should be neat and attractive
- Matting the headings and information on colorful paper is encouraged
- Label all parts of the project
- No living organism (mold, plants, etc.)
- No props attached. No free standing items



PROJECTS CAN BE EXPERIMENTS OR DEMONSTRATION

PROJECTS PROCESS

Essential Parts of a Successful project

Each project must follow Scientific Method and must include the following:

- **Problem** – *What do you want to find out?*
- **Purpose** – *Why do you want to do this project?*
- **Hypothesis** – *What do you think will happen?*
- **Materials** – *What do you need to test?*
- **Procedure** – *How can you test what will happen?*
- **Results** – *What happened?*
- **Conclusion** – *What did the experiment show?*

PROBLEM

The problem is the scientific question to be solved or demonstrated. It also serves as the title of the project.

PURPOSE

The purpose is a written statement that explains why the topic was chosen and what the student hopes to learn.

HYPOTHESIS

They hypothesis should be based on a cause and effect relationship and should be written as an "If…then" statement.

MATERIALS

All materials being used in the experiment should be identified in list form. Include quantities and sizes.

PROCEDURES

Procedures should be written as a step-by-step description of the investigation. Independent and dependent variables along the constants should be identified in this section.

RESULTS

Observations made and data collected during the investigation are presented in the Results section. Competitors must use tables, charts, graphs, and diagrams to show and explain their results.

CONCLUSION

The conclusion is a written statement confirming what was learned during the investigation. In your conclusion, tell if your hypothesis was supported or not supported. Be sure to tell what could be done to improve the experiment.