



## **DEPARTMENT 69 - YOUTH SCIENCE:** **SCIENCE & TECHNOLOGY**

Superintendent: Bryant Sebastian, (810) 278-1021,  
bryantmsebastian@gmail.com

Premiums: A=\$2; B=\$1.25; C=No premium

**Judging: Monday at 2:30 p.m.**

Location: Still Exhibit Barn

**Objective:** To increase ones knowledge about information related to science, astronomy, rockets, computers and certain engines and then to apply that knowledge into a project either in the form of a display, poster, notebook or similar creation.

### **Fair Exhibit Requirements**

1. Exhibitors must be present for interview.
2. Projects are to be in place by judging time and must remain in place until Sunday, 8 a.m.
3. Poster Board size 14"x 22" or 22"x 28" only.
4. Entries should be limited to one per category, unless entries are significantly different.

### **SECTION 20 –SCIENCE EXHIBIT/DEMONSTRATIONS**

Projects can be an educational exhibit of some phase of science including astronomy, chemistry, biology, physics, or any other branch of science. Projects can either be on a poster board, in a booklet, or a constructed article illustrating what the member has learned about science.

#### **SCIENCE PROJECTS**

**Class 01** - Ages 8-12 yr. olds

**Class 02** - Ages 13 yrs. and older

#### **MODELS (Rockets, Spaceships or Airplanes)**

All models must include a one page project story by the exhibitor on the model, what they learned about it and how they built it.

**Class 03** - Ages 8-12 yr. olds

**Class 04** - Ages 13 yrs. and older

#### **DEMONSTRATIONS**

Demonstrations should be presented in front of the judges using proper lab safety procedures, and should not last any longer than five minutes. There must be a report of the demonstration explaining how the demonstration was performed and what was learned from the demonstration.

**Class 05** – Ages 8-12 yr. olds

**Class 06** – Ages 13 yrs. and older

### **SECTION 21 – COMPUTERS**

An exhibit must include a poster and/or booklet which displays (hard copy) results of the computer project. Included in this will be an explanation of the hardware (computer, modem, printer, etc) and software programs used to create the project. The explanation should also show the steps used in designing the project. Please be sure to explain the purpose that the

project can serve (i.e. A database for correspondence to a group for a specific purpose, a spreadsheet and maybe graphing to show the relationship between animal feedings and weight gain, etc).

Internet Sites must have a sample of the printouts of the Web pages with the complete URL addresses, along with an explanation of why this site is interesting and/or useful. The website should be fully functional and accessible should the internet be available during judging.

A laptop pc computer will be available during judging equipped with Microsoft Office programs, DVD playing capabilities and internet. The project file should be brought in on a flash drive or compact disc. All presentations should be printed out on a hard copy should there be a malfunction of hardware or software.

**Class 07** - Create any graphic project.

**Class 08** - Create an original computerized drawing (CAD, landscaping, etc.)

**Class 09** - Create a Word Processing project.

**Class 10** - Create a Database project.

**Class 11** - Create a Spreadsheet project.

**Class 12** - Create a computerized presentation (i.e. Microsoft Power point)

**Class 13** - Write a report on the history of computers and computer language.

**Class 14** - Write a report on specific application software.

**Class 15** - Write a report on imaginary software & what function and purpose the software would serve and who would use it.

**Class 16** - Create your own web page.

**Class 17** – Create a media presentation (i.e., iMovie, Garageband, etc.)

**Class 18** - Any other computer project not previously listed.

### **SECTION 22 – SMALL ENGINES**

#### **2 and 4 Cylce Engines**

**Class 19** - Ages 8 – 12 yrs. old

**Class 20** – 13 yrs. and older

**Class 21** – Club Project

#### **Automotive**

**Class 22** Ages 8 – 12 yrs. old

**Class 23** - Ages 13 yrs. and older

**Class 24** - Club Project

### **SECTION 23 – ELECTRICAL**

**Class 25** – Ages 8-12 yrs. old

**Class 26** – Ages 13 yrs. and older

**Class 27** – Club Project