

SCIENCE & TECHNOLOGY

Superintendent: Kelley Kujat (810) 304-2078

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Premiums: A=\$4; B=\$2; C=No premium

Judging: Monday at 2:30 p.m.

Location: Still Exhibit Barn

Project Requirements

1. Exhibitors must be present for interview.
2. Projects are to be in place by judging time and must remain in place until project release time.
3. Entries should be limited to one per category, unless entries are significantly different.
4. Entries should include some sort of poster or report to be displayed during the week of the fair even if project is completely electronic.

DIVISION 3701- 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 – Science Projects Ages 9-12 yr. olds

Class 02 – Science Projects 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 – Models Ages 9-12 yr. olds

Class 04 – Models 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, pictures are encouraged. Materials from the demonstration should be displayed during the week of the fair.

Class 05 – Demonstration Ages 9-12 yr. olds

Class 06 – Demonstration Ages 13 yrs. and older

DIVISION 3702 - COMPUTERS

An exhibit must include a poster and/or booklet which displays (hard copy) results of the computer 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 through a **device brought in by the exhibitor during judging.** Exhibitors must bring their own electronic device to judging to show the judges their functional project. All projects should be printed out on a hard copy should there be a malfunction of hardware or software and to be displayed during the week of the fair.

Class 07 - Create any graphic project.

Class 08 – App design

Class 09 – Computer programming

Class 10 – 3-D printing

Class 11 – Computer building/design

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 an imaginary or realistic invention of hardware or software & what function and purpose the invention 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.

DIVISION 3703 - ROBOTICS

Exhibitors design and construct a robot to perform a specific task(s). A log book of data collected and a report of what was learned from the project should be created for judging.

Class 19 – Robotics Ages 9 – 12 yrs. old

Class 20 – Robotics 13 yrs. and older

Class 21 – Robotics Club Project