

**AEROSPACE
DEPARTMENT 50**

SUPERINTENDENT:

Ken Meek

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Launch Date: Thursday, July 16th

Launch Time: 8-10 AM

Launch Site: Back Parking Lot

Launch will be cancelled or delayed until no later than 6:00 PM due to rain or winds in excess of 20 MPH. There will be NO rescheduling date.

Learning Objective: To develop exhibitor's ability to build and modify vehicles for flight, understand principles of flight and knowledge of general aviation.

Rules: One entry per class. Rocket motors are not allowed in the Exhibit Hall. Rocket launch is not required for judging. Kites and airplanes will be flown at Fair during judging, weather permitting.

Rules for Rocket Launch: Superintendent or judge must be notified if rocket is to be launched. **Rockets will be brought to the launch site by superintendent.** (Model rockets entered in Class 91-A-8 may also be launched at that time.) All rockets to be launched must follow the NAR Model Rocket Safety Code (<http://www.nar.org/NARmrsc.html>). Rocket motors will not be provided. Rocket motor size must be verified by Superintendent on Judging Day.

Placings and Awards:

Divisions 1-8: 1-6 Strip Ribbons and Premium Money.

Best of Show: 1-6 Rosettes, First Place- \$5.00 and Trophy

DIVISION 1 – FLYING ROCKET KITS

The exhibit is a device built from a kit which will be propelled by the thrust of commercial combustion. Exhibitor may only enter rockets that have been built from kits. No designer kit rockets may be entered. No kit bashing allowed.

Class:

500101 5-7 years old (competitive)

500102 8-11 years old

500103 12-14 years old

500104 15-19 years old

Best of Show

DIVISION 2 – ROCKETS – ORIGINAL DESIGN

The exhibit is the exhibitor's own creation propelled with the thrust from commercial combustion.

Designer kits and kit bashing allowed.

Entries in Original Design may be moved from 500201 to 500202 for reasons of public safety at the discretion of superintendent and/or judge.

Class:

500201 Flying

500202 Non-Flying

Best of Show

DIVISION 3 – KITES – KITS

This is an exhibit of a lightweight framework constructed of any non-hazardous material designed to fly in a steady breeze at the end of a string. All exhibits in this division are made from kits (or cut out by someone else).

Class:

500301 5-7 years old (competitive)

500302 8-11 years old

500303 12-14 years old

500304 15-19 years old

Best of Show

DIVISION 4 – KITES – ORIGINAL DESIGN

Rules: This exhibit is the exhibitor's own creation of a lightweight framework of constructed of any non-hazardous material designed to fly in a steady breeze at the end of a string. All exhibits in this section are to be cut out, prepared, assembled and finished by the exhibitor.

Class:

500401 5-7 years old (competitive)

500402 8-11 years old

500403 12-14 years old

500404 15-19 years old

Best of Show

DIVISION 5 – PAPER AIRPLANES

Rules: This exhibit is a paper vehicle capable of flight. Planes will only be constructed with material provided at Fair, which will include 8 1/2 x 11 inch sheet of paper, paper clips, and cellophane tape. Airplane is to be constructed and flown at the time of judging. Exhibitors in this division must also display a trifold or notebook on principles of design or science of flight of paper airplanes. Information displayed must be in the exhibitor's own words.

Class:

500501 5-7 years old (competitive)

500502 8-11 years old

500503 12-14 years old

500504 15-19 years old

Best of Show

DIVISION 6 – AIRPLANE GLIDERS

This exhibit is a rubber band powered plane or glider to be flown and judged at Fair. These can be constructed either from wood, paper or other materials.

Class:

500601 5-7 years old (competitive)

500602 8-11 years old

500603 12-14 years old

500604 15-19 years old

Best of Show

DIVISION 7 – EDUCATIONAL DISPLAY

The exhibit is a Notebook and Tri-fold Display to inform the general public about aerospace.

Class:

500701 5-7 years old (competitive)

500702 8-11 years old

500703 12-14 years old

500704 15-19 years old

Best of Show

DIVISION 8 – AVIATION

These exhibitors must demonstrate what they have learned in any area of aviation.

Class:

500801 Logbook: must have a short one page essay from the pilot or student pilot.

500802 Aviation display: must include a story or a description in the notebook with a trifold display of any area of aviation, such as weather, safety, aviation physiology, aerodynamics, etc.

500803 Flight Plan: a planned cross country flight with short essay on why this flight was selected. A written flight plan with check points, crosswind components, magnetic headings, a weather briefing, and a weight and balance chart, etc. A sectional chart with the area marked must be included.

500804 Powered planes and /or kits: must have a short story with a description of the aircraft, why they have it and why they fly it.

500805 Home built airplane/ultra-lights: must comply with any FAA regulations that apply. Must include a journal or story of how it is being built or was built and is being flown.

Best of Show