

4-H AEROSPACE: ROCKETRY

2019 Project of the Year

TERMS AND CONDITIONS

1. One rocket, remote control aircraft, or drone and one poster/display board in each grade category (3 - 5, 6 - 8, and 9 - 12) will be sent to the State Fair. Thus each county could send a maximum of six exhibits to the State Fair, 3 rockets, remote control aircrafts, or drones and 3 poster/display boards. No "Ready to Fly" or E2X rockets are acceptable in the 4-H Aerospace project.
2. All level of rockets should bring a base for display at the county fair. However, rockets chosen for State Fair entry do not need base for display. Launch pads are not permitted. All rockets, remote control aircraft, or drone must weigh less than 3.3 pounds and considered an amateur rocket according to FAA regulations.
3. Posters must be displayed horizontally, sized 22" x 28", mounted on a firm backing (foam core board or other), and covered in clear plastic or other transparent material. Refer to 4-H Poster Guidelines. All posters, notebooks, and display boards must include a reference list indicating where information was obtained, giving credit to the original author, to complete the 4-member's exhibit. This reference list should/might include web site links, people and professionals interviewed, books, magazines, etc. It is recommended this reference list be attached to the back of the poster or display board, be the last page of a notebook, or included as part of the display visible to the public. A judge is not to discredit an exhibit for the manner in which references are listed.

EXHIBITS

LEVEL: (Grades 3 - 5) Complete the activities as indicated in the manual.

Exhibit Requirements:

Rocket of your choice, Estes Skills Level 1, 2, or comparable difficulty or a poster, display board on any topic in the manual (i.e., construct a paper airplane with a poster board explain why you designed it the way you did). Cluster engine rockets and rockets that take an engine D or above are not permitted in this level.

Remote control aircraft or drone of your choice that is age/grade appropriate and compliant with FAA regulations, federal and state laws, and local ordinances. This exhibit choice is to include a notebook or poster including how the aircraft/drone was used and aerospace skills learned. Displaying the aircraft or drone is optional.

LEVEL: (Grades 6 - 8) Complete the activities as indicated in the manual.

Exhibit Requirements:

Rocket of your choice, Estes Skills Level 2, 3, or comparable difficulty or a poster, display board on any topic in the manual (i.e., glider plane (page 18) with poster explaining design). Cluster engine rockets and rockets that take an engine E or above are not permitted in this level.

Remote control aircraft or drone of your choice that is age/grade appropriate and compliant with FAA regulations, federal and state laws, and local ordinances. This exhibit choice is to include a notebook or poster including how the aircraft/drone was used and aerospace skills learned. Displaying the aircraft or drone is optional.

LEVEL: (Grades 9 - 12) Complete the activities as indicated in the manual.

Exhibit Requirements:

Rocket of your choice, Estes Skills Level 3 or above a box kite or other aerodynamic object of your choice which illustrates principles of flight or poster, display board on any topic in the manual (i.e, box kite (page 20) with poster explanation). Rockets that take and engine G or above are not permitted.

Remote control aircraft or drone of your choice that is age/grade appropriate and compliant with FAA regulations, federal and state laws, and local ordinances. This exhibit choice is to include a notebook or poster including how the aircraft/drone was used and aerospace skills learned. Displaying the aircraft or drone is optional.

4-H ROCKET LAUNCH

**1:00 PM at Southwest end of Fairgrounds, near soccer field (weather permitting)
on Saturday of the fair**

This will be an exhibition with participation ribbons and prizes awarded. All 4-Hers and their parents are invited to participate. It is not necessary to launch the rocket made for exhibit, as it may be damaged. No rocket engines bigger than D will be allowed.