

## **DEPARTMENT – BUILDING EXHIBITS**

### **SECTION – STEM-ASTRONOMY**

#### **(Must be enrolled in STEM, Astronomy Project)**

1. Read ALL Rules. Violation of any of the following rules may result in disqualification. All decisions will be made by a county agent and their decision is final.
2. Each exhibitor is limited to 1 entry per class. Exhibits must be the result of the current year's project work by 4-H member.
3. Exhibitors name, county, age, and year's in project must be tagged or labeled in a prominent location on all pieces of exhibit including educational display, poster and/or notebook.
4. Team exhibits are defined as developed by two or more 4-H members.
5. Telescopes entered in this division may be built from a kit or by original design. Pre-finished telescopes which require no construction or painting do not qualify for State Fair exhibits.
6. Telescopes are limited to no more than four feet in length. They must be placed on a stationary stand that does not allow the telescope to roll and/or fall over. The stand cannot extend past two feet in length or width.
7. Each telescope exhibit must include a "4-H Astronomy Exhibit Information Form" which must be attached to the outside of a 10' x 13' manila envelope. You must also include construction plans/original design plans (or a photocopy) of the telescope and place it inside the manila envelope. For notebooks, display boards and posters, no additional exhibit information is required; no manila envelope is needed for these exhibits.
8. See the last section for full details about exhibiting posters, display boards and notebooks
9. Two photographs showing telescope construction and operation are required. Photographs must be mounted on one side of an 8 1/2' x 11' page. A brief caption must accompany each photograph. Place photos in the 10' x 13' manila envelope.
10. The telescope must be properly assembled and painted with a smooth and uniform finish. Decals, if used, must be attached smooth and tight.
11. Telescopes designed by the exhibitor must be original, not a modification of an existing kit.
12. If a safety violation is noted by the judges, superintendent, or other staff, the exhibit will receive a participation ribbon (at the judge's discretion).

#### **CLASSES – 5500: Telescope made from kit**

Include plans.

#### **5501: Telescope made from original design**

By exhibitor, not merely a modification of a pre-existing kit.

## **4-H STEM EDUCATIONAL EXHIBITS – POSTERS, NOTEBOOKS AND DISPLAY BOARDS**

Purpose: To allow 4-Hers to explore STEM outside the bounds of traditional projects for rockets, robotics, astronomy, computers and unmanned aerial systems. All posters, notebooks and display boards are listed in this section and have been removed from the individual sections to save space.

1. For notebooks, display boards, and posters, no additional exhibit information is required; no manila envelope is needed for these exhibits.
2. Exhibits in posters, notebooks and display boards must contain substantial supporting educational materials.
4. Educational display boards, posters and notebooks should be creative and showcase details about the knowledge learned in the project during the current 4-H year. Value is placed on youth who can demonstrate how their skills have increased while completing the project. Each exhibit

will be judged on uniqueness, creativity, neatness, accuracy of material, knowledge gained, and content. An exhibit judging score sheet will be available at [www.STEM4KS.com](http://www.STEM4KS.com). For example, a rocket that may have crashed may be made into an educational display or poster that tells a great story with many lessons learned.

5. Follow copyright laws, citing all sources of information in a standard notation. Sources of information must be cited on the front of your exhibit, including all posters and educational display boards.

6. Educational displays are not to exceed a standard commercial 3'x 4' tri-fold display board. Card tables for display are not required but can be used at the county only level. Care should be taken to use durable materials that will withstand Fair conditions.

7. "Construction Kits" that are part of Educational displays must be contained in cases (tackle boxes, sealable containers, etc.) that may not be larger than 1' X 2' X 2' and must have a latch which securely keeps all components contained in the "Construction Kits". Other components are to adhere to appropriate dimensions as stated elsewhere.

8. Educational Project notebooks must be organized in a 3-ring binder.

9. Any three dimensional display exhibits may not be thicker than 1".

10. Engines and igniters in rockets ARE NOT permitted with the exhibit and constitute an immediate disqualification. This is for safety reasons and includes both spent and live engines.

11. Exhibitor's name, county or district, age, and year(s) in project must be tagged or labeled in a prominent location on the notebook and/or "Construction Kit." For educational displays and/or posters, the exhibitor's name, county, age, and year(s) in project must be tagged or labels on the back of the exhibit. Failure to label an exhibit may result in one ribbon placing deduction.

12. Exhibits should possess the following qualities (in no particular order):

- A Central theme

- What you want others to learn

- Be designed and constructed in a manner befitting the exhibit

- Be something you are interested in

- Be related to Astronomy, Computer Systems, Robotics, Rocketry, or Unmanned Aerial Systems and those characteristics described above

13. If a safety violation is noted by the judge, superintendent, or other staff, the exhibit will receive a participation ribbon (exhibit at the judge's discretion).

### **Astronomy - Novice – Ages 7-8 (Not State Fair Eligible)**

5728 Novice Astronomy Educational Display

5729 Novice Astronomy Educational Notebook

5730 Novice Astronomy Educational Poster

### **Astronomy - Intermediate Division – 9-13 years old**

5731 Intermediate Astronomy Educational Display

5732 Intermediate Astronomy Educational Notebook

5733 Intermediate Astronomy Educational Poster

### **Astronomy- Senior Division – 14 years and older**

5736 Senior Astronomy Educational Display

5737 Senior Astronomy Educational Notebook

5738 Senior Astronomy Educational Poster