

LEAVENWORTH COUNTY FAIR 2026

4-H UNCREWED AIRCRAFT SYSTEMS

Superintendent: Open

Exhibit Judging: Monday, July 27th from 5pm – 8pm; 4-H Building (consultation)

The 4-H uncrewed aircraft system or UAS project explores the world from above the trees and discovers new frontiers with UASs. UASs are commonly known as Uncrewed Aerial Vehicles (UAVs) or drones. Members explore the operation and applications of uncrewed aircraft systems including how UASs link to other projects such as geology, robotics, electronics, crop science and many others.

Rules

1. Read General 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. The information that accompanies the UAS must be limited to the 4-H Engineering & Technology Exhibit Information Form which is affixed to a 10" x 13" envelope. This envelope should NOT be attached to the UAS. This may be downloaded from <http://uas.engtech4ks.com/>. Any UAS exhibit not including this completed envelope will receive a participation ribbon. All revisions of forms previously released for the division dated prior to current year are void for use and new forms must be obtained and used that are dated by the Kansas State 4-H Office for the current year.
3. The exhibitor's name, county, age, and years(s) in project must be tagged or labeled on the exhibit, educational display, notebook, and/or poster.
4. Uncrewed Aircraft Systems that include or depict weaponry of any kind will be disqualified.
5. For scratch built UAS kits, if modifications are made to the exhibit, a page should be attached noting those modifications.
6. If a safety violation is noted by the judges, superintendent, or other staff, the exhibit, at the judge's discretion, may receive a reduced ribbon placement or disqualification.
7. For practical application entries, the UAS is not required to be displayed as part of the exhibit, only the supporting material illustrating the application.
8. The same UAS may be used by multiple exhibitors for different practical application entries.

Scoresheets, Forms, and Contest Study Materials:

[UAS Scoresheet](#)

[UAS Exhibit Form](#)

[Educational Display, Notebook or Poster Scoresheet](#)

Classes

Junior Division (Ages 8 – 13 years)

5701 Uncrewed Aircraft System designed and constructed by the exhibitor that is operated by a remote-controlled device. The UAS must not be a mere modification of an existing kit or plan. You may not exhibit a UAS that is purchased off the shelf in this class.

5702 Practical application of an Uncrewed Aircraft System constructed from a commercial (purchased) kit. This includes one or more of the following: video, notebook, poster, display board, etc. This class is separate from educational exhibits. A tangible use would be mapping Russian olive trees, eroded soils, bindweed in fields, etc. There are also many other non-agricultural UAS uses that would be appropriate for this class.

Senior Division (Ages 14 and older)

5706 Uncrewed Aircraft System designed and constructed by the exhibitor that is operated by a remote-controlled device. The UAS must not be a mere modification of an existing kit or plan. You may not exhibit a UAS that is purchased off the shelf in this class.

5707 Practical application of an Uncrewed Aircraft System constructed from a commercial (purchased) kit. This includes one or more of the following: video, notebook, poster, display board, etc. This class is separate from educational exhibits. A tangible use would be mapping Russian olive trees, eroded soils, bindweed in fields, etc. There are also many other non-agricultural UAS uses that would be appropriate for this class.

Educational Exhibits Rules

1. For notebooks, display boards, and posters, no additional exhibit information is required; no manila envelope is needed for these exhibits.
2. Exhibits are to have a **clear link to the Engineering and Technology area** of uncrewed aircraft systems.
3. 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 scoresheet available at [ET Posters Displays Notebooks Score Sheet All.pdf](#).
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. Example citation: "Make a Star Finder" <https://spaceplace.nasa.gov/starfinder/en/>
6. Educational displays are not to exceed a standard commercial 4' high X 3' wide X 2' deep. No card table exhibits will be allowed. Care should be taken to use durable materials that will withstand Kansas State Fair conditions.
7. Posters are limited to commercial 3' X 4' tri-fold display boards.
8. "Construction Kits" that are part of educational displays must be contained in cases (tackle boxes, sealable containers, etc.) that may not be larger than 4'-2' 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.
9. Educational Project notebooks must be organized in a 3-ring binder or similar book.
10. Any three-dimensional poster or display board exhibits may not be thicker than 2 inches.
11. The exhibitor's name, county, age, and year(s) in project must be tagged or labeled on the back of the exhibit. Exhibit cards are not sufficient as they may be removed or repositioned for display. Failure to label an exhibit may result in one ribbon placing deduction.

12. Exhibits should possess the following qualities (in no particular order):
 - a. A central theme
 - b. What you want others to learn
 - c. Be designed and constructed in a manner befitting the exhibit
 - d. Be something you are interested in
13. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor's exhibit, at the judge's discretion, may receive a reduced ribbon placement or disqualification.

Uncrewed Aircraft System – Junior Division (Ages 7 – 13)

5781 Intermediate Uncrewed Aircraft System Educational Poster

5782 Intermediate Uncrewed Aircraft System Display Board

5783 Intermediate Uncrewed Aircraft System Notebook

Uncrewed Aircraft System – Senior Division (Ages 14 years and older)

5786 Senior Uncrewed Aircraft System Educational Poster

5787 Senior Uncrewed Aircraft System Display Board

5788 Senior Uncrewed Aerial System Notebook

Resources:

Project Area – [UAS](#)

[UAS Judging Sheet](#)