

## UNMANNED AERIAL SYSTEMS

Dept RO

Purpose: The 4-H unmanned aerial systems or UAS project explores the world from above the trees and discovers new frontiers with UAS's. UAS's are commonly known as Unmanned Aerial Vehicles (UAV's) or drones. Members explore uses and applications of unmanned aerial systems including how UAS's: link to other projects such as geology, robotics, electronics, crop science and many more. Each exhibitor may enter one exhibit per class. 1.4-H members enrolled in 4-H Engineering & Tech Unmanned Aerial Systems for updated County and State Fair guidelines for ages 11 and up please contact the extension office or <http://uas.engtech4ks.com>.

### **Junior Division A - 7 and 8 years old**

**5700** - Unmanned Aerial System "designed and constructed by exhibitor" that is operated by a remote-controlled device.

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

**5701** - Unmanned Aerial System "designed and constructed by 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 Unmanned Aerial System constructed from a commercial (purchased) kit. This includes the UAS, plus one or more of the following a video, notebook, poster, display board, etc. This class is separate from educational exhibits. A tangible use would be mapping Russian olive trees, eroded soils, and bindweed in fields, etc. There are also many other non-agricultural UAS uses that would be appropriate for this class.

### **Division B - Senior, 14 years and older**

**5706** - Unmanned Aerial Systems designed and constructed by 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 Unmanned Aerial System constructed from a commercial (purchased) kit. This includes the UAS, plus one or more of the following a video, notebook, poster, display board, etc. This class is separate from educational exhibits. A tangible use would be mapping Russian olive trees, eroded soils, and bindweed in fields, etc. There are also many other non-agricultural UAS uses that would be appropriate for this class.