



## Science and Technology

### Geospatial Projects

#### Objectives

4-H'ers will learn to:

- demonstrate marketable /productive skills for work and family life in science and technology.
- effectively communicate with others.
- effectively plan and organize.

#### Project Manuals & Other Resources

##### Geospatial (Ages 8-18)

Exploring Spaces, Going Places explores the world of geospatial science and goes where no 4-H project has ever gone before! Accessed entirely on one CD, the three youth levels and group guide are valuable resources to anyone interested in geospatial technology, geographic education, Geographic Information Systems (GIS) and Global Positioning Systems (GPS). Activities correlate with National Education Standards.

#### Supporting Events & Activities

For further information and requirements, please contact your [county 4-H agent](#).

#### Competitive Contests:

##### County, District, State or National Levels Demonstration and Illustrated Talks

Part of the "Mechanical, Electronic Science, Petroleum Power and Small Engines" division of demonstrations or illustration talks. This competition allow 4-

H'ers to demonstrate or prepare an illustrated talk about some new knowledge or skill they have learned in their project. Presentations are judged for standards of excellence/peer competition.

#### Public Speaking

This program is designed to give members of 4-H experience in the preparation and delivery of a 4-H related speech. This contest requires 4-H'ers to recognize, organize, and present information on a given topic.

#### Photo Exhibit

The General Photo Exhibit Contest provides a showcase for 4-H member's photographic accomplishments with the intent of increasing public awareness and understanding of the 4-H program.

#### Poster Art Program

The Poster Art Program gives 4-H members an opportunity to use the visual medium of poster art to promote public understanding and support of the 4-H program.

#### Award & Recognition Opportunities

##### Ribbons and Awards for Competitive Events

Blue, Red, and White ribbons are awarded based on quality of performance during a competitive event using a standard scoring system. In addition to ribbons, youth may receive additional recognition for

excellence, such as trophies, at the district, state and national levels.

#### **4-H Project Reports**

Certificates, pins and other county determined awards are available to youth who complete their project records annually at the county level. The project report forms are available for each age group (Junior, Intermediate, Senior). For copies of these materials, please contact your [county 4-H agent](#).

#### **4-H Portfolios**

Senior 4-H'ers (ages 14 and up) are eligible to complete and submit a 4-H Portfolio of their 4-H experiences and activities. Youth in small engines projects may compete in one of the following categories:

- **Science and Technology** - (predominantly focused on experiences in the science or technology category)
- **Citizenship** - (if activities have been significantly focused on community and helping others)
- **Achievement** - (if 4-H activities include a broad spectrum of 4-H projects)
- **Leadership** - (if 4-H experiences have centered on leadership provided to other youth or teaching and leading project activities)

The award for 4-H Portfolio is a partially expense paid trip to National 4-H Congress.

#### **College Scholarships**

Graduating Seniors in 4-H are eligible to compete for a variety of educational scholarships.

***Contact your local 4-H office for these and other supporting project events, activities and award opportunities.***