The name and county of each exhibitor should appear separately on the back of each board, poster or article and on the front cover of the notebooks so owner of exhibit may be identified if the entry tag is separated from the exhibit.

GEOSPACIAL, Division 880

Youth enrolled in Geospacial or GEAR TECH 21 may exhibit in any class within this division.

H880001* **Poster** (SF299) – Create a poster (not to exceed 14”x22”) communicating a GPS theme such as How GPS or GIS works. Careers that use GPS or GIS, How to use GPS, What is GIS, GPS or GIS in Agriculture, Precision Agriculture, or a geospatial topic of interest.

H880002* **4-H Favorite Places or Historical Site Poster** (SF272) – The 4-H exhibitor identifies a favorite place or historical site (including grave sites) in Nebraska. Exhibit should include latitude and longitude, digital picture, and local area map. Poster size should not exceed 14” x 22”.

H880003* **GPS Notebook** (SF300) – Keep a log of at least 5 places visited using a GPS enabled device. At least one site should be from a community other than where you live. For each site, record the latitude, longitude and elevation. Also include a description of the site, a paragraph explaining what was interesting about the site or finding it. Photos of each site and/or cache are optional but encouraged.

H880004* **Geocache** (SF301) – Assemble a themed geocache. Each geocache should be a water-tight container. It should include a log book and pencil for finders to log their visits and may include small trinket, geocoins, etc. for the finders to trade. Documentation should include a title, teaser description and the geographic coordinates of intended placement. **Register the site at geocaching.com, include a print-out of its registry.** The entry may include a photograph of the cache in its intended hiding place.

H880005* **GIS Map** (SF302) – Create a GIS map with at least three data layers. The GIS should include both vector and roster data. Data may be obtained by using a GPS-enabled device, downloading data from a reputable web site or digitizing. The GIS should have a theme/purpose and include a title, north arrow, legend, labels, scale bar and source. Maps may be of any subject of interest to the 4-Hers. Include a 1-3 page report on why you chose the subject and maps(s), how you created the
maps(s) and the course of your data (use reliable sources such as the US Center for Disease Control or the US Census Bureau). This project could include Hurricane Tracking maps. (Create a GIP map for Hurricane Tracking with a geographic information system (GIS) computer software application of the Atlantic Ocean, Pacific Ocean, or the Gulf of Mexico. The map should appear similar to the National Oceanic and Atmospheric Administration (NWAA) (http://www.nhc.noaa.gov/) Poster size should not exceed 22” x 30”. Place report in plastic cover or notebook attached to the poster.

GIS Thematic Map (SF302) - Using any GIS software, create a thematic map. Thematic maps can utilize any subject of interest to the 4-Her. Maps could be of Amelia Earhart’s journey, Sir Francis Drake’s voyage, population density maps, water usage maps, or 4-H projects in Nebraska (examples). Create a GIS Map using data from books and/or internet. Use reliable date, ex. U.S. Center for Disease Control or U.S. Census Bureau. Map any size up to 36” x 24” - should include title, base map, neat line, north arrow and legend. Identify the source of your information on the back of the map.

Class H880007 4-H History Map – Preserve 4-H History: Nominate a Point of Interest for the 4-H History Map Project. Include copy of submitted form in folder or note book. To nominate a site for the 4-H history map please go to http://arcg.is/1bvGogV. For more information about 4-H history go to http://4hhistorypreservation.com/History_Map/. For a step by step video on nominating a point, please go to this link: http://tinyurl.com/nominate4h. Write a brief description of historical significance of 4-H place or person. (a minimum of one paragraph)

Careers Interview (SF239) – Interview someone working who is working in a Geospatial field and include research with that career. Interviews can either be written or in a multimedia format (CD/DVD). Written interviews should be in a notebook. Written reports should be 3 to 5 pages, double spaced, 12 point font and 1” margins. Multimedia reports should be between 3 to 5 minutes in length.