

Find yourself with Satellites and GPS

To complete this Interest Project, girls must complete the following:

- Do the one REQUIRED activity
- Do ONE activity of your choice from each of the THREE categories (LEARN, DO, SHARE)
- Design and do ONE activity of [YOUR OWN](#)
- Create a short [REFLECTION](#) after you've completed [all of the activities](#)

REQUIRED:

Build a satellite using the interactive online exhibit built by Lockheed Martin Enterprise Information Systems for the San Jose Tech Museum (www.thetech.org). This activity takes about 15 minutes.

- Go to http://www.thetech.org/exhibits_events/online/
- Under **Exhibits**, there is a link to **Online Exhibits:**
<http://www.thetech.org/exhibits/online/>
- Scroll down that page and you will see an interactive page on building a satellite.
<http://www.thetech.org/exhibits/online/satellite/>
- Click on launch
- Build the three different kinds of satellites
- What do they all have in common?
- What makes each unique?

LEARN:

1. Global Position Systems can find any location on the planet. Utilizing a GPS website, locate the following places:

- a) Your House
- b) Your School
- c) Your State Capital
- d) The White House
- e) Mount Rushmore
- f) The Eiffel Tower
- g) The Great Pyramid
- h) Machu Pichu - Peru

2. Research 3 professions that utilize GPS?

3. Learn how satellite phones work and when are they most useful?

4. GPS is useful in disaster situation. Learn how FEMA and other emergency management agency use GPS in a disaster.

DO:

1. Using a personal GPS and a Geostationary Earth Orbit (GEO), go on a Geocaching treasure hunt.
2. Learn how satellite technology is used in the one of the following fields:
 - animal conservation
 - natural resource development
 - geographic research
 - environmental research
 - national security

(Resource: www.education.usgs.gov/common/secondary.htm)

3. Research how the United States Geological Survey uses GPS to map climatic and land mass changes. <http://education.usgs.gov/>
4. Do an internet search and take part in a online GPS game.

SHARE:

1. Research 4-6 careers, which involve satellites and/or GPS, including:
 - a) Skills and Responsibilities
 - b) Work Environment
 - c) Training
 - d) Education
 - e) Earnings

Share what you have learned with your troop.

2. Create a list of business that rent or sell GPS equipment. Include rental or purchase costs, terms, etc. Share with your troop or a group of younger girls.
3. Create a hike for younger Girl Scouts, using a handheld GPS.