



GPS Artists

Name _____

Part 1: Design It!

Use the space below to plan. Draw a sketch of your initials and then write the directions you will need to follow to create it.

Part 2: Draw It!

Follow your teacher's directions to use the GPS unit to create your art.

Part 3: Analyze It!

Complete this section after you have had a chance to view what you have created.

1. How did you do? Were your initials easy to read? Explain.
2. How would you do it differently?
3. What else could you draw?

Teacher Information

This activity was based on an activity completed during a GPS workshop presented by GIS2GPS.com. Visit <http://www.gpsdrawing.com/gallery.html> for more information and examples of drawings completed using GPS technology.

Students will need access to a GPS unit or a device with a GPS application. They will also need access to software that allows them to show the drawings on a map.

For the first creation, challenge students to “write” their initials (first and last or all of them) using the tracks feature on the GPS unit. Be sure to allow time for students to plan their route after discussing the boundaries of the “canvas” or schoolyard area where they will complete the activity.

Allow time for students to use the GPS unit to write their initials and then provide time to download their data into the mapping software. Have students complete Part 3: Analyze It after they have viewed their initials.

Extension Ideas:

1 – Allow students to design their own “art” and use the GPS units to create them.

2 – Challenge students to write the directions for basic shapes and then trade them with another student before attempting to “draw”.

3 – Provide specific dimensions for an artistic creation (i.e. specific perimeter, height/length limits, etc.) and allow time for students to design a picture that would fit those dimensions.

Additional Resources:

GPS Drawing - <http://www.gpsdrawing.com/>

GPS Art - <http://www.gps-art.org/>

TopoFusion - <http://www.topofusion.com/news/2012/01/11/gps-art-in-topofusion/>

GPS Art on Vimeo - <http://vimeo.com/96872>