4-H Training Topics - Exploring Spaces, Going Places: Geospatial Geographic

Background:

The goal of 4-H *Exploring Spaces*, *Going Places* is to offer experiences and opportunities that allow learners of all ages to increase their knowledge, skill, and understanding of geographic and geospatial-related ideas and problems.

Resource:

Setting Out—Beginners Level 1 Data Collection Activity #2, Data, Data Everywhere

Materials Needed:

Copy of websites from http://www.ilovegis.com/links.html, computers with Internet connectivity, paper, pencils, newsprint and markers.

Preparation:

Make copies of websites. Turn on computers and log in. Allow 30 minutes for preparation and set-up.

1 Opening Activity

What to Do	What to Say	Minutes
As staff arrive, have them sit at a computer.	Welcome. Please find a computer, get comfortable and we will start shortly.	2

2. Curriculum

What to Do What to Say **Minutes** Show the Exploring Spaces, Going Maps and what's included on them; this is a simple way of describing this project. But, 10 Places curriculum. it's much more than that. Because this project is different in many ways from other 4-H projects, let's take a little extra time to learn about the curriculum. The maps talked about in Exploring Spaces, Going Places are digital. Like paper maps, there are dots or points that represent features such as cities, and lines that represent roads and rivers. All of this information- where the point is located, how long the road is, and even how many square miles a lake occupies - is stored as layers in digital format. Think of this geographic data as layers of information underneath the computer screen. Each layer represents a particular theme or feature of the map. One theme could be all the roads in an area. Another theme could represent all of the lakes in the same area. Yet another could represent all the cities. The themes can be laid out on top of one another, creating a stack of information about the same geographic area. Each layer can be turned off and on. Each person controls the amount of information about an area that is seen, at any time, on any specific map. Handout list of GIS websites from Totally confused? Let's take a look at some websites to get a better understanding of http://www.ilovegis.com/links.html what GIS is all about. Click on Restrooms in New York City (http://www.nyrestroom.com). Here is a list. My favorite is "Restrooms in New York City," which shows bathroom Give the participants 7 minutes to locations all over the city. Another site shows what each county in New Jersey is doing explore the websites. to harness alternative energy sources on the energy map. Are you getting the idea? Now, think about your world. Think about what you see. Are all areas alike? How are they the same? How are they different? Exploring Spaces, Going Places helps young people learn about the world around them

through digital maps.

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Staff Introductions

What to Do	What to Say	Minutes
	I realize the description of the curriculum was long but it was important for everyone to understand the content included in this curriculum. Now, let's quickly introduce ourselves and tell the one place you would want to include on a community map. Would it be where you live, work, hang out, shop or your favorite restaurants?	5

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Sharing Ideas

What to Do	What to Say	Minutes
Have a short discussion about how the information in this project can be used.	Do you think youth would enjoy using GIS and GPS? Would this activity need to be changed for children or youth? Was this a useful experience?	2

6 Applying the Experience

What to Do	What to Say	Minutes
	What did you learn from this that can be applied to some other programming planned for this week? How can this information be used to provide a service to the community? Could the project group develop a positional map of CYS Services? Would that type of map be useful to new families or employees?	3

Making a Plan

What to Do	What to Say	Minutes
Make a plan for starting <i>Exploring Spaces</i> , <i>Going Places</i> .	Now it's time to work as a group and set some dates for the project. When should meetings begin with the children and youth? Who is the adult project leader? When should another planning meeting be scheduled?	7

8 Closing

What to Do	What to Say	Minutes
Summarize and close.	Exploring Spaces, Going Places can be used with almost every other 4-H curricula. Get ideas from the youth and plan 6 to 10 activities for the project. The 4-H project materials all have lots of activities that can be turned into lesson plans and are fun for adults and children. Thank you for your interest and enthusiasm.	2