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Map of Restroom in Brockport using GPS

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The College at Brockport

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1. Tell me who you are

Name: Brian Minchen
Grade level(s)/Subject taught: 9 th Grade General Science
Objectives: Students will create a map containing of all the publicly available restrooms in the village of Brockport.

1. *Write the Mathematical Concept or “key idea” that modeling will be used to teach*

--

and/or...

Write the Science Concept or “key idea” that modeling will be used to teach

Students will use GPS and GIS to create a map that will have all the spots available in the village of Brockport that public restrooms are available.

Materials:

GIS program

GPS receivers

“...a rich **one-page, single-spaced**, description or a *vision* of your best thinking...”

Prompts:

1. How will you assess the prior knowledge of the student?
2. How will you begin the lesson?
3. What are the teacher and students doing every 5-10 minutes? (Teacher Actions and Student Actions)
4. How will you assess the learning for the lesson?

Using _____ I plan on having my students...
(software / modeling package(s))

Many handicapped people and people with medical problems have to use the bathroom very frequently. A helpful guide would be a real life map with spots for publicly available restrooms.

Students would be introduced to the GPS units and then taken into the village of Brockport. They would be assigned to groups of 2 or three and would walk around to the businesses and services available and mark the coordinates of all with public restrooms.

Students would then come back, and coordinate with the other students who looked at other places to gather all locations with public restrooms. These would then be superimposed onto aerial photographs of the village.

The maps could be used by the Brockport Visitors association and in local vendors alongside other pamphlets and literature.

Students would get experience with GIS, a very valuable skill in today's market, along with GPS skills outside of just directions. Plus they would give back to the community a positive contribution in the way of maps, and work with local businesses to improve communication of their services. This could offer a better business outcome for those who have bathrooms, and encourage those who don't to consider them.

My assessment will be an ongoing observation of the students and their final map. They would be graded on their cooperation with each other and follow up phone calls to businesses to see how polite students were.



