



## *Professional Development Reunion Workshop on Integrating Geospatial Technology into the HS Classroom*

### **Field Papers Activity: Part 2 – Take your map into the field**

Objective: Identify and map at least 3 three features on campus that are not already present on your maps, AND that can be symbolized with a single point. Examples of features include: lampposts, signs, trees, benches, fire hydrants, etc.

1. In small groups, decide where on campus that you will go. Will you use both maps, or just one? What might you decide to map?
2. Once you are outside, and have found a feature of interest, locate your position on the map.
3. Draw a point on your map to indicate the location of the feature. You should label the feature and/or make notes on the map that you feel might be important to know later on. For example, what type of tree did you map? What does the sign say? What color is the bench?
4. Once you have mapped at least 3 features, return to the lab.



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### **Field Papers Activity: Part 3 – Capture your notes**

1. Use a digital camera (or scanner) to take a picture of your map. It works best if your map is flat against a surface and the camera is positioned directly above it (not at an oblique angle). Try to make the paper fill the whole image. You don't want a lot of extra background in your image if possible.

Make sure that:

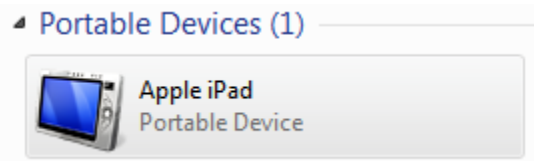
- The image resolution is at least 200dpi.
  - The file format is a JPG, PNG, TIF, or GIF.
2. Follow the directions on the next page to transfer the image from the device to the computer so that you can upload it. [Note: Depending on the device that you use and your internet connection, you may also be able to access fieldpapers.org on your device and upload the image directly from there.]

How to get the images off the iPad Mini:

- a. Use the USB cable to plug the iPad into the computer.
- b. On the iPad, a pop-up should appear that says 'Allow this device to access photos and videos?'. Tap **Allow**.
- c. The computer should automatically detect\* the iPad and give you the option to 'open the device to view files'. Double-click on it to open the iPad.



\*If you don't see the window above, you'll need to click on the Computer icon on the desktop, and then on Apple iPad (under Portable Devices)



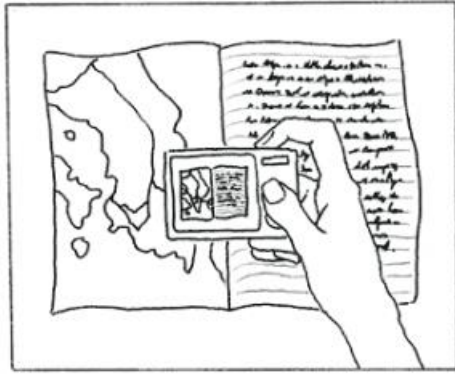
- d. Double-click on Internal Storage...



...and open the DCIM folder, and then open the 100APPLE folder. You should see your image(s) in this folder.

- e. Copy or drag & drop the image(s) to your computer's desktop.

3. Open a browser on the computer and go to: <http://fieldpapers.org/>
4. Click on 'Capture your notes'.



 [Capture your notes](#)

[Upload](#) pages you've photographed.

5. Click on the Choose Files button and browse to where you saved your image (on the desktop). You can only upload one at a time. Be patient while your image uploads as it may take a few minutes.



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6. Once your image successfully uploads, you will be taken to a download screen. Notice that there is a locator map at the top of the screen that shows you where your image is located. Below that map, you can view the image you uploaded (and pan, zoom in/out).



7. Click on the Download GeoTIFF link, and save the file to your desktop.

If you view the saved file, you'll notice that it looks just like the one you uploaded. The difference is that the GeoTIFF image is *georeferenced* (it has a location, or set of coordinates, associated with it now). It's not visible, but the image is in a format that can be used by a GIS program.