Water, Geography and Maps - Wednesday

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PennsylvaniaView

Create an impervious map or calculations – Google Earth

- https://www.google.com/earth/
- Launch Earth
- In the Search – Type in the address of your school
- Click the Draw Shape tool 
- Click on points around an area – (First point and Last Point)
- Type Impervious Surface and save to Google Drive
- Click on the measure tool 
- Click on points around an area – (First point and Last Point)

Create an impervious map or calculations – ArcGIS Online

- https://www.arcgis.com/index.html
- Log in and Click Map
- In the Search – Type in the address of your school
- Click Basemap – Imagery
- Click Add – Add Map Notes – Impervious Surfaces – Click Create
- Click Freehand Area 

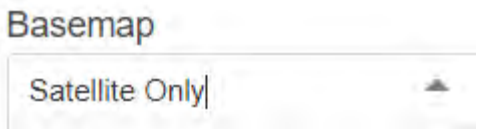
- Click and Hold to draw polygon. Release when completed

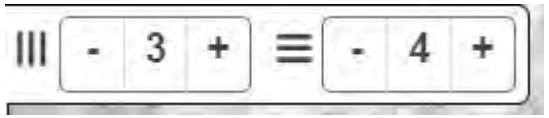
Create an impervious map or calculations – ArcGIS Online

- Click the Measure Tool 

- Choose Area 
- Click around the building

Create an impervious map or calculations – Field Papers

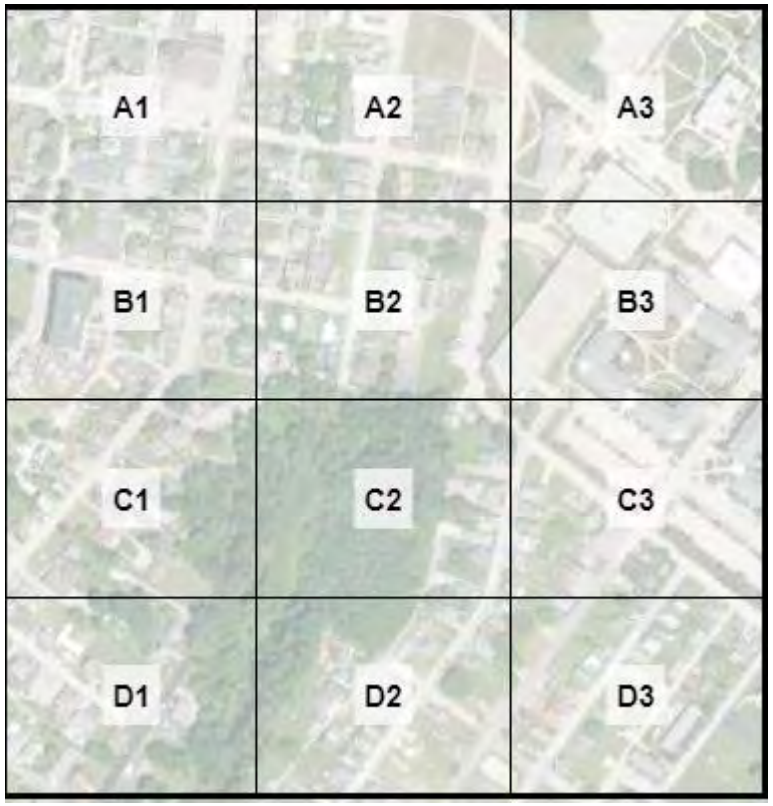
- http://fieldpapers.org/
- Click Make Yourself an Atlas
- Make the Basemap – Satellite Only 

- On the left side in Paper Size – choose Letter
- In the Orientation Choose either Portrait or Landscape
- Then in the Top Left Hand Corner choose a grid that fits your amount of groups (12 groups) 

Create an impervious map or calculations – Field Papers

- Click Make Atlas 

- Download PDF



What’s next????

- Ask students to increase the “Green Space” of their school grounds
- Use Kristen’s exercise for calculations

Dams !!!!!

- Removal of Dams https://www.americanrivers.org/threats-solutions/restoring-damaged-rivers/dam-removal-map/
- Nebraska Dams https://www.americangeosciences.org/critical-issues/maps/interactive-map-dams-nebraska
- Mekong Infrastructure https://www.stimson.org/project/mekong-infrastructure/
- Mekong Story Map https://arcg.is/1uiG0z

Future….

- Real Earth - . http://realearth.ssec.wisc.edu/?products=global-lakes-turbidity,global-lakes-trophic

- Lake Turkana in Africa seems to make a nice case study:
- https://re.ssec.wisc.edu/s/H1JKzH (might take a little while to load)