



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

## Online Resources

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GeoTech Consortium of Western New York - <http://nygeographicalliance.org/node/36>

ArcGIS Online - <http://www.arcgis.com>

ArcGIS Online Help - <https://doc.arcgis.com/en/arcgis-online/>

Learn ArcGIS Online lesson gallery - <https://learn.arcgis.com/en/gallery/>

StoryMaps - <http://storymaps.arcgis.com/>

Esri K12 GIS Organization - <http://esriurl.com/k12gis>

Esri's ConnectED website - <http://www.esri.com/connected>

- Earth Science GeoInquiries
  - Get short and easy-to-use instructional activities for the earth science classroom that apply advanced web mapping technology.
  - Recommended grades: 6-9
  - Time per lesson: 15 minutes
  - Activities available at <http://edcommunity.esri.com/geoinquiries>
- Mapping Our World
  - Provide structured lessons in geography, social studies, and environmental science using ArcGIS Online software.
  - Recommended grades: 6-12
  - Time per lesson: 45-90 minutes
  - Lessons available at [edcommunity.esri.com/MOW](http://edcommunity.esri.com/MOW)
- Thinking Spatially Using GIS
  - Provide structured lessons in elementary geography using ArcGIS Online software.
  - Recommended grades: 4-6
  - Time per lesson: 30-60 minutes
  - Lessons available at [edcommunity.esri.com/TSG](http://edcommunity.esri.com/TSG)

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**Penn State Geospatial Revolution website** - <http://geospatialrevolution.psu.edu/>

- Video episodes and learning materials for grades 7-12 are available

**AAG GeoSTART** -

[http://www.aag.org/cs/education/k12\\_and\\_teacher\\_education/geostart\\_teaching\\_earth\\_science](http://www.aag.org/cs/education/k12_and_teacher_education/geostart_teaching_earth_science)

- GeoSTART materials will help middle/high school students learn state-of-the-art approaches to geography, earth science, and spatial thinking skills using NASA Earth Observing Missions remote sensing imagery and related data. Each activity is designed to engage one of the eight major modes of spatial thinking listed in the learning scaffold that is the primary focus of this NASA-funded curriculum project. The activities use this approach to study hurricanes.

**Volcano Links:**

- USGS Hawaiian Volcano Observatory website - <http://hvo.wr.usgs.gov/>
- USGS Hawaiian Volcano webcams - <http://hvo.wr.usgs.gov/cams/>
- U.S. Volcanoes and Current Activity Alerts - <http://volcanoes.usgs.gov/>