

Classroom Resources

Career Awareness:

PRWeb: <http://www.prweb.com/releases/GIS/Careers/prweb10078944.htm>

Fresno State, Division of Continuing and Global Education:

<http://www.fresnostate.edu/cge/giscert/why-careers/careers.html>

General:

VA Coastal Zone Map (VCU): <http://www.coastalgems.org/>

VADEQ—VEGIS: <http://www.deq.virginia.gov/ConnectWithDEQ/VEGIS.aspx>

NASA Classroom Activities K-12:

http://landsat.gsfc.nasa.gov/education/activity_matrix.html

Why use GIS in the Classroom?: <http://www.ncsu.edu/gisined/text-why.html>

Education World:

http://www.educationworld.com/a_tech/tech/tech186.shtml

Teaching with GIS: Introduction to using GIS in the Classroom

(ESRI Training):

<http://training.esri.com/gateway/index.cfm?courseid=2198&fa=catalog.webCourseDetail>

GIS in the Classroom, a Collaboration of Ideas:

<http://www.digitalgeography.co.uk/archives/2009/05/gis-in-the-classroom-a-collaboration-of-ideas/>

GIS for Schools (ESRI): <http://www.esri.com/Industries/k-12>

Tutorial: Fundamentals of Remote Sensing (Natural Resources Canada):

<http://www.nrcan.gc.ca/earth-sciences/geography-boundary/remote-sensing/fundamentals/1430>

Learn Arcgis: <https://learn.arcgis.com/en/gallery/>

Telling your story with Storymaps, ESRI training: http://training.esri.com/Courses/ts_StoryMaps/player.cfm?

Create a StoryMap tour: <http://storymaps.arcgis.com/en/app-list/map-tour/tutorial/> and

<http://www.esri.com/esri-news/arcwatch/0513/make-a-map-tour-story-map>

Virginia View Curriculum <http://virginiaview.cnre.vt.edu/education.html>

Geography and Sciences:

NOAA COAST WATCH:

<http://eastcoast.coastwatch.noaa.gov/>

Starting Point:

<http://serc.carleton.edu/introgeo/gis/index.html>

GeoCommunity: <http://www.geocomm.com/>

The Science Spot:

<http://sciencespot.net/Pages/classgpslsn.html>

My World GIS: <http://www.myworldgis.org/>

Geography, GIS day Activities: <http://www.ilovegeography.com/home/gis-day-activities/>

USGS Education: <http://education.usgs.gov/lessons/teachingtopomaps.html>

Utah Education Network:

http://www.uen.org/utahlink/activities/view_activity.cgi?activity_id=15969

Joseph Kerski, Storymaps course Youtube:

<https://youtu.be/8NVuwFo3LEk?list=PLiC1i3ejK5vuVpRcFxxHsGWuUEhsVwg2u>

The Landsat Thematic Bands Web Mapping Application in ArcGIS Online: <https://youtu.be/4ChIS6dE3BY>

Storymaps: <http://storymaps.arcgis.com/en/>

Creating an Editable Feature Service for Citizen Science Mapping from a Spreadsheet

<https://youtu.be/9xqubdXOYfs>

Remote Sensing:

NASA Landsat 7 Science Data Users Handbook:

<http://landsathandbook.gsfc.nasa.gov/> Band Combinations

(MODIS/ASTER/Landsat):

http://biodiversityinformatics.amnh.org/tool.php?content_id=141

Esri—Landsat Imagery, Change Matters Viewer: <http://www.esri.com/software/landsat-imagery/viewer>

Health and Physical Education:

Utah Education Network:

http://www.uen.org/utahlink/activities/view_activity.cgi?activity_id=15969

Pomeroy's Physical Education Page:

<http://mropomeroy.wordpress.com/2011/10/26/geocaching-in-physical-education/>

History and Social Studies:

Social explorer: <http://www.socialexplorer.com/>

GIS for History: <http://www.gisforhistory.org/>

National Park Service, Historic Trails and Route Viewer:

<http://imgis.nps.gov/Geocortex/Viewer/NPS/Viewer.html?Viewer=National%20Historic%20Trails>

Historical GIS Clearinghouse and Forum:

http://www.aag.org/cs/projects_and_programs/historical_gis_clearinghouse/hgis_projects_programs

National Historical Geographic Information System: <https://www.nhgis.org/>

What Historians want from GIS (Article, ArcNews Online):

<http://www.esri.com/news/arcnews/summer07/articles/what-historians-want.html>

China Historical GIS: <http://www.fas.harvard.edu/~chgis/>

Utah Education Network: http://www.uen.org/utahlink/activities/view_activity.cgi?activity_id=15969

USGS Historical Maps in ArcGIS Online: <https://youtu.be/xZDUbRtuKME>

Language Arts:

Using GeoSpatial Tools in Teaching Language Arts (GIScafé):

<http://www10.giscafe.com/blogs/gissanjay/2012/02/14/using-geospatial-tools-in-teaching-language-arts/>

Reading, Writing and Thinking around the Globe; Geospatial Technologies for the English Language Arts and

Beyond (Curriculum Integration & GIS in Education): http://barbareeduke.com/literature/literature_latitudes.htm

Utah Education Network: http://www.uen.org/utahlink/activities/view_activity.cgi?activity_id=15969

Mathematics:

ESRI GIS Education Community

- Mathematics: <http://edcommunity.esri.com/educational-roles/Instructors/Math>
- Analyzing Coordinates Before Mapping Them:
<http://blogs.esri.com/esri/gisedcom/2010/12/10/analyzing-coordinates-before-mapping-them/>
- Bridging GIS and Mathematics Education:
<http://blogs.esri.com/esri/gisedcom/2010/03/26/bridging-gis-and-mathematics-education/>

ESRI, Combining Math, Science, and GIS: <http://www.esri.com/news/arcuser/0309/obenhaus.html>

GPS Math Modules: <http://users.marshall.edu/~silver/GPS-UTM/GPS-UTM%20Activities.htm>

Lesson Planet: <http://www.lessonplanet.com/search?keywords=gps+math>

Real World Math: <http://www.realworldmath.org/>

University of Virginia and Teacher Education: Mathematics:

<http://www.teacherlink.org/content/math/activities/gps.html>

Data:

City of Richmond GIS: <ftp://ftp.ci.richmond.va.us/GIS/Shapefiles/>

Global Land Cover Facility (GLCF) Data and Products: <http://glcf.umd.edu/data/>

National Weather Service GIS Data Portal: <http://www.nws.noaa.gov/gis/>

Virginia Geospatial Extension Program: <http://gep.frec.vt.edu/data.html>

US Census Bureau Tiger Products: <http://www.census.gov/geo/maps-data/data/tiger.html>

USDA Natural Resources Conservation Service (NRCS) Geospatial Data Gateway:

<http://datagateway.nrcs.usda.gov/>

USDA NRCS Web Soil Survey: <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>

USFWS, National Wetland Inventory, data by state: <http://www.fws.gov/wetlands/Data/State-Downloads.html>

USGS Earth Resources Observation and Science Center (EROS) Global Visualization Viewer (GLOVIS):

<http://glovis.usgs.gov/>

USGS National Map Viewer: <http://viewer.nationalmap.gov/viewer/>

USGS Map Locator and Downloader:

[http://store.usgs.gov/b2c_usgs/usgs/maplocator/\(ctype=areaDetails&xcm=r3standardpitrex_prd&area=%24ROOT&layout=6_1_61_48&uiarea=2\)/.do](http://store.usgs.gov/b2c_usgs/usgs/maplocator/(ctype=areaDetails&xcm=r3standardpitrex_prd&area=%24ROOT&layout=6_1_61_48&uiarea=2)/.do)

USGS Historical Topographic Maps – Preserving the Past:

<http://geonames.usgs.gov/pls/topomaps/f?p=262:1:2112692734499120>

USGS Topo Quadrangles – Maps for America: <http://nationalmap.gov/ustopo/>

Virginia Base Mapping Program (VBMP—VITA): <http://www.vita.virginia.gov/isp/default.aspx?id=8412>

Collector using ArcGIS Desktop: <http://doc.arcgis.com/en/collector/>

Sharing Data Through Storymaps: <https://blogs.esri.com/esri/gisedcom/2016/04/29/sharing-data-through-storymaps/>

