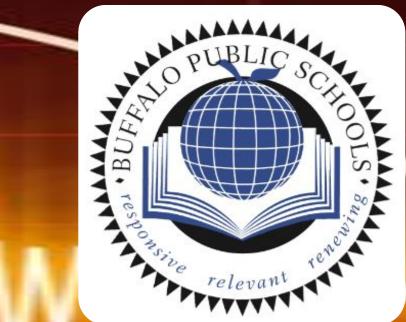


Creating a Story-Map for Earthquake Activity



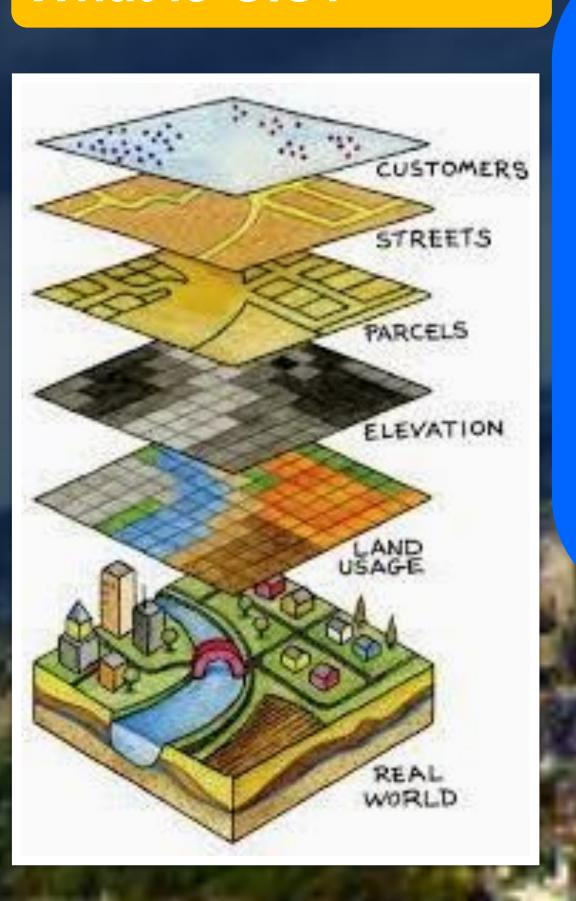






BUFFALO STATE The State University of New York

What is GIS?



What is a Story Map?

A story map is a type of application

that is stored in the ArcGIS Online

cloud, and has a specific set of tabs,

text, photographs, video, and audio

capabilities presented to the map

user. There are many benefits to

They provide:

using story maps in your classroom.

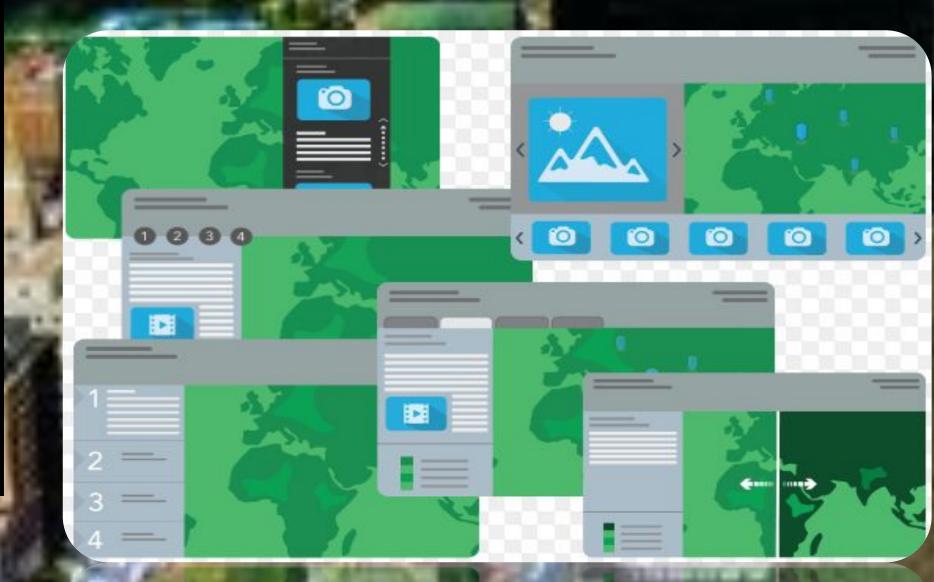
GIS stands for Geographic Information System. It is used to analyze a database and receive the results in the form of a map. Since many kinds of data have important geographic aspects, GIS can have many uses such as: weather forecasting, sales analysis, population forecasting, and land use planning, etc. A working GIS integrates five key components: hardware, software, data, people, and methods.



Creating a Story Map



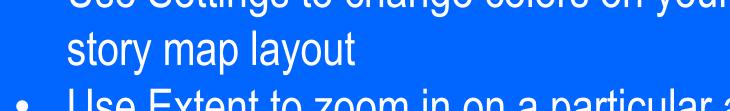
Choose a Story Map design using Arc GIS Online





- Upload images of location
- Use Settings to change colors on your story map layout
- Use Extent to zoom in on a particular area you want to focus on

Insert a description





Belize Wildlife Sanctuaries

Displays location and information of wildlife sanctuaries in Belize



ESRI Arc GIS https://www.arcgis.com/home/index.html

create a story map

- National Ocean Service, National Oceanic and Atmospheric Administration, US Department of Commerce https://oceanservice.noaa.gov/facts/gis.ht
- Earthquake Tracker in the United States https://earthquaketrack.com/p/united-states/recent
- United States Geological Survey USGS https://earthquake.usgs.gov/earthquakes/map

Teaching Implementation: Comparing the Earthquakes in Western New York with Earthquakes throughout the World



In the Regents Earth Science curriculum,

there are several topics that this lesson

addresses: Coordinate mapping, Natural

hazards, Topography & Plate movement.

Research Earthquake occurrences

throughout the world documenting in

magnitude, documented devastation,

Focus on a certain of the world, using

their documented data and begin to

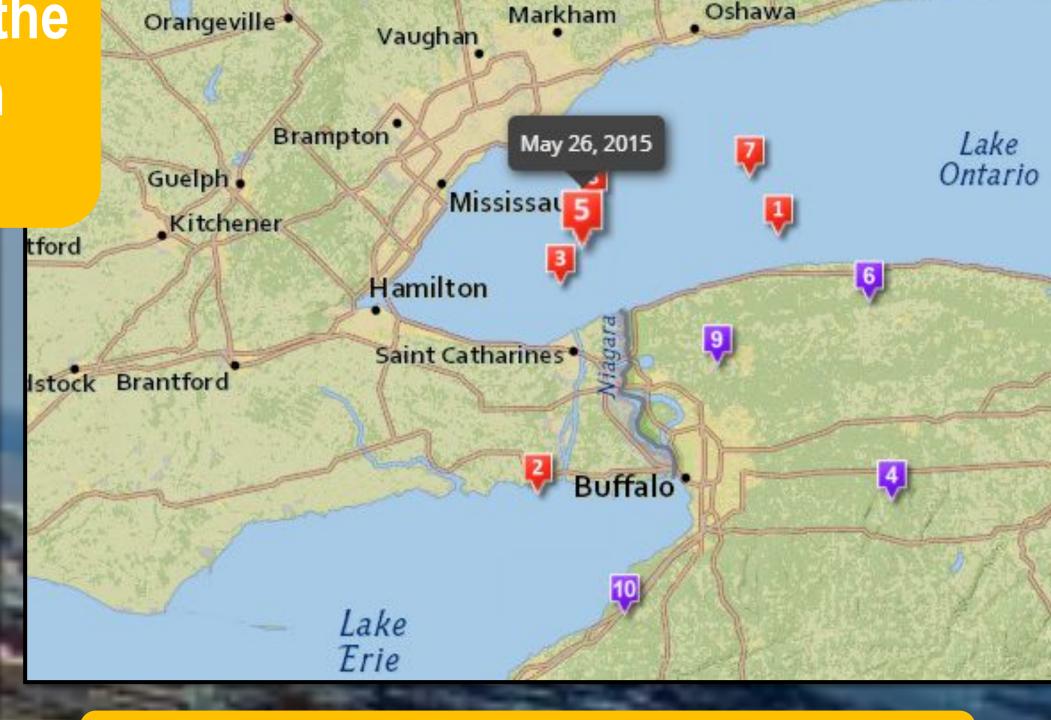
They will then add to their story map a

comparison of the earthquake activity

seen here in Western New York

chart format details of location, activity,

The students will:



Learning Standards Addressed:

ESS3.B: Natural Hazards

Natural hazards and other geologic events have shaped the course of human history; [they] have significantly altered the sizes of human populations and have driven human migrations. (HS-ESS3-1)

ESS3.C: Human Impacts on Earth Systems

The sustainability of human societies and the biodiversity that supports them requires responsible management of natural resources. (HS-ESS3-3)

Scientists and engineers can make major contributions by developing technologies that produce less pollution and waste and that preclude ecosystem degradation. (HS-ESS3-4)

CCSS.ELA-LITERACY.RST.9-10.7

Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.

CCSS.ELA-LITERACY.RST.9-10.8

Assess the extent to which the reasoning and evidence in a text support the author's claim or a recommendation for solving a scientific or technical problem.

CCSS.MATH.CONTENT.5.MD.B.2

Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots.

Acknowledgements

I would like to thank NSF for the opportunity to take part in the ISEP Partnership with the University at Buffalo. We would also like to thank Dr.Joseph Gardella Jr for his supportive efforts throughout the program and in our buildings. And a special thank you to the GIS Camp instructors that shared their knowledge with us so we can bring more to our students

teach content. Story maps provide good ways to

Story maps provide good ways to

- teach GIS, data, computer, multimedia, and other technical skills.
- Story maps provide good ways to teach critical thinking, organizational skills, and other skills.
- Story maps provide good ways to assess student work.

