

Global Studies 9 Geography Lesson

Niagara Falls High School
4455 Porter Rd
Niagara Falls, NY 14305
Erik Olander



BUFFALO STATE
The State University of New York

Objective

By the end of this lesson, students will be able to

- 1) Gain an understanding of the concepts of latitude and longitude
- 2) By using Google Earth, students will be able to coordinate latitude and longitude for several major cities around the world
- 3) Through the use of ArcGIS Collector, students will plot 10 coordinates across the NFHS campus
- 4) Though the use of ArcGIS StoryMap, students will construct a story board that documents the plotted location of ArcGIS Collector



Instructional Sequence: Day 2

In accordance of the Social Studies Framework Practice Section D: Geographic Reasoning

2. Identify, describe, and evaluate the relationships between people, places, regions, and environments by using geographic tools to place them in a spatial context.
- A) Students will be introduce to Google Earth and various features of the program including the process of plotting latitude and longitude using Pushpin feature
 - B) Students (grouped in pairs) will find latitude and longitude coordinates of various cities throughout the world using Google Earth



Instructional Sequence: Day 3

In accordance of the Social Studies Framework Practice Section D: Geographic Reasoning

3. Identify, analyze, and evaluate the relationship between the environment and human activities, how the physical environment is modified by human activities, and how human activities are also influenced by Earth's physical features and processes.

- A) Students will be introduced to the geo-mapping app Arc Collector and its various features
- B) Student swill plot various points using the Arc Collector mobile app throughout the NFHS campus
- C) Students will take pictures via their Smartphone camera of the locations that they plotted of Arc Collector



Instructional Sequence: Day 4

In accordance of the Social Studies Framework Practice Section D: Geographic Reasoning

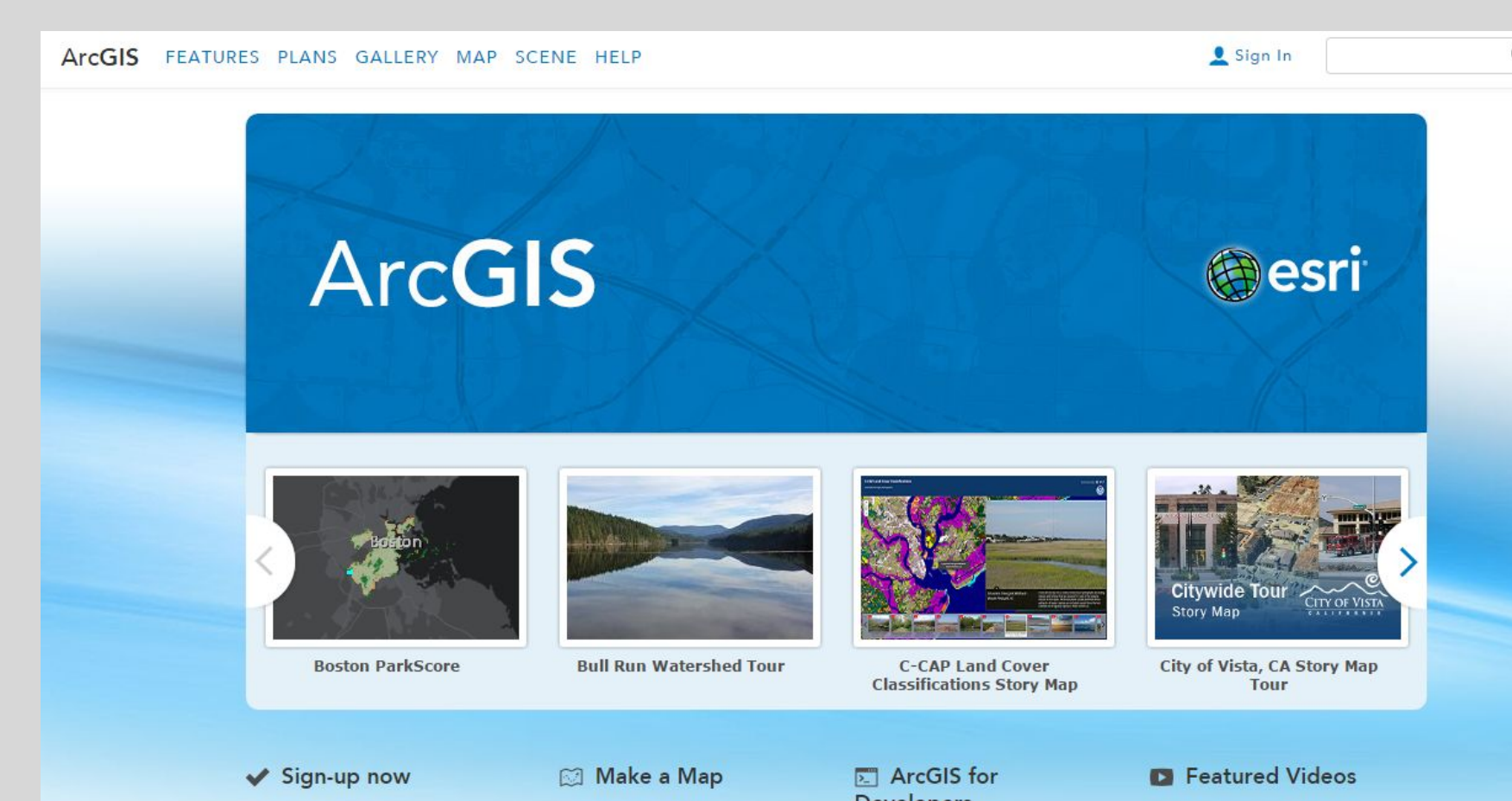
5. Recognize and analyze how place and region influence the social, cultural, and economic characteristics of civilizations

- A) Students will be introduce to the ArcGIS StoryMap software and its various features
- B) Students will import their pictures, place their coordinate points and include a small description of the location



Assessment

- A) Chapter 1 : Methods of Social Studies Vocab Test
- B) Chapter 1: Methods of Social Studies Chapter Test
- C) Latitude /Longitude Coordinates Worksheet
- D) Google Earth Coordinates Worksheet
- E) Arc Collector 10 points
- F) Arc GIS Story Map construction based on 10 points



Results and Discussion

With the use of new integrated technology, i.e. Smartboard Powerpoint Presentation, ArcGIS Collector and ArcGIS StoryMap, students will gain an understanding of coordinating latitude and longitude and how the physical environment is modified by human activities.



ArcGIS Online

Conclusions

Through the integration of technology, students will understand the Fives Themes of Geography and Recognize and analyze how place and region influence the social, cultural, and economic characteristics of civilizations

References

1. New York State Grades 9-12 Social Studies Framework Section D: Geographic Reasoning

Funded by the Interdisciplinary Science and Engineering Partnership, #1098259.