

**Topic:** Intro to Geography

**Content Area:** Global Studies

**Grade Level:** 9<sup>th</sup> Grade Global Studies

**Duration:** 4 45-minute class periods

**GIS Tool:** Google Earth

Arc Coordinator

ArcGis Story Board

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

- a) Gain an understanding of the concepts of latitude and longitude
- b) By using Google Earth, students will be able to coordinate latitude and longitude for several major cities around the world
- c) Through the use of Arc Coordinator, students will plot several locations across the NFHS campus
- d) Through the use of ARCGIS, students will construct a story board that documents the locations plotted with Arc Coordinator

**Instructional Sequence:**

Day 1:

- a) Students will take notes on the Powerpoint Presentation for Chap 1 Methods of Social Studies Vocab Words and take notes up to Slide 7 on Chap 1 Methods of Social Studies Chapter Notes
- b) Students will complete the Coordinating Latitude/Longitude Worksheet

Day 2:

- a) Students will be introduced to Google Earth and various features of the program including the process of plotting latitude and longitude
- b) Students (grouped in pairs) will find the latitude and longitude coordinates of various cities throughout the world using Google Earth

Day 3:

- a) Students will be introduced to the software program Arc Coordinator and its various features
- b) Students will plot various points using the Arc Coordinator mobile app throughout the NFHS campus
- c) Students will take pictures via their Smartphone camera of the locations that they plotted on the Arc Coordinator

Day 4:

- a) Students will be introduced the ARCGIS Storyboard technology
- b) Students will plot their coordinated locations, add picture of location and small description of location

**Assessment:**

- a) Vocab Test for Chap 1
- b) Chapter Test for Chap 1
- c) Have at least 5 Coordinator Points
- d) Completed ARCGIS StoryBoard with pictures and explanation for the 5 points

**Other Resources:**

Chapter 1 Powerpoint Vocab Words

Chapter 1 Powerpoint Chapter Notes

Lat/Long Worksheet

Google Earth Worksheet