

Week 2 – The basics and geographic inquiry method

10 – 15 minute lecture introducing Geography concepts and GIS followed by Mapping Our World lesson

GeoMentor should cover the following topics:

1. What is Geography?
Study of relationships of natural systems, areas, societies, culture and how they interact in a spatial area
2. What is Spatial?
Character and nature of physical space, measurement and / or distribution of the subject matter
3. Spatial Themes:
Location
Region
Movement
Place
People
4. Spatial Analytics:
Space
Zone
Pattern
Distribution
Location
Region
Distance
5. Geographers and GIS Analysts study these concepts together in spatial analysis of elements and processes of the environment
Energy
Air
Water
Weather
Climate
Landforms
Soils
Animals
Plants
Microorganisms
Earth
6. Scientific Method in Geography
Observations and documentation of real world with field visits
Data collection in field
Inductive reasoning – why? What? When?
Hypothesis
Experiment with maps and data