

Map Elements

Write On



Learner Expectation

► Geography

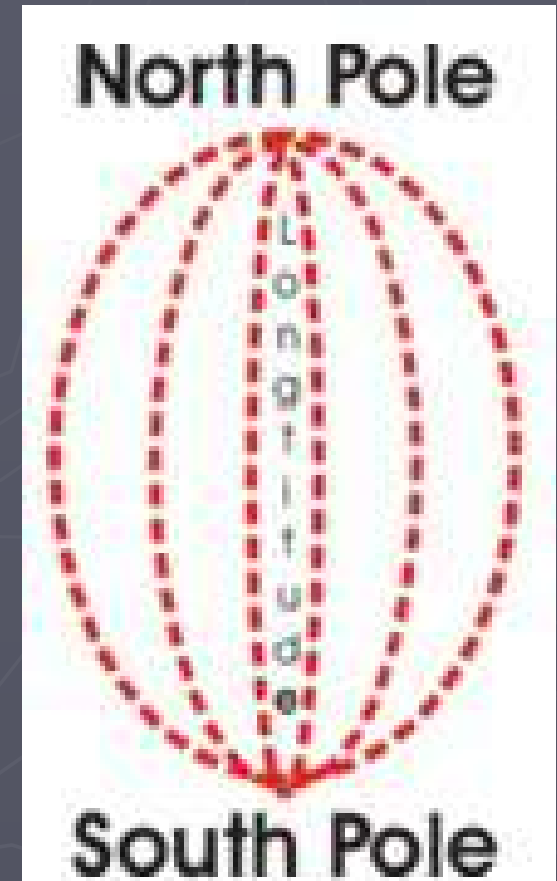
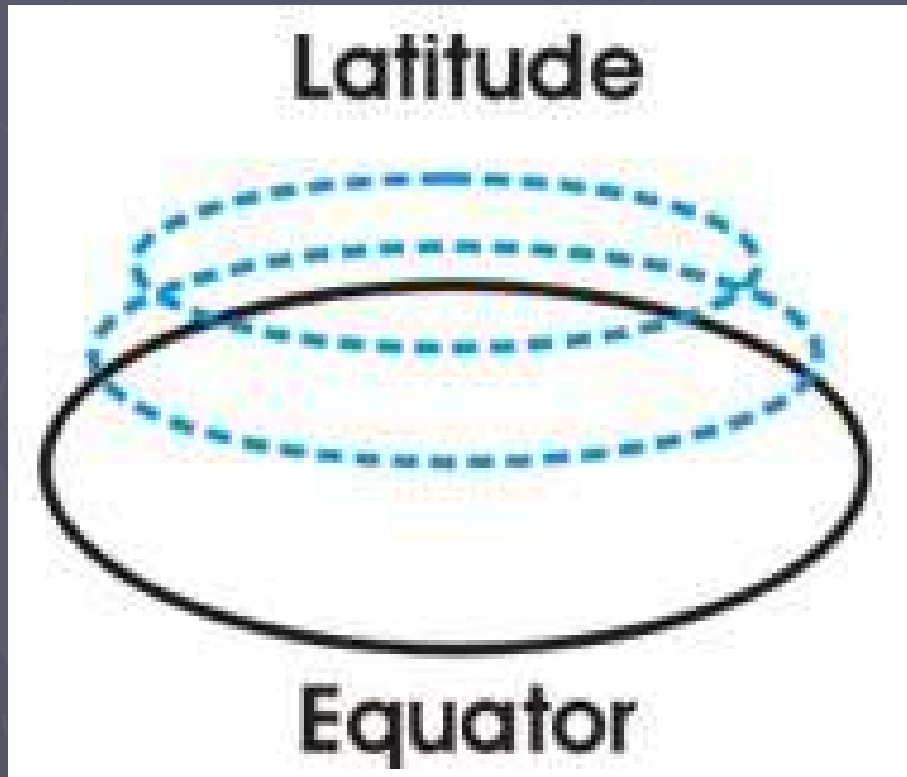
Understand how to use maps, globes, and other geographic representations, tools, and technologies to acquire, process and report information from a spatial perspective.

In this activity you will:

- ▶ Learn about the elements of a map: latitude, longitude, the hemispheres, directions, time zone, scale, and map legends.
- ▶ Write a paragraph describing the parts of a map. Tell the function of each part in reading a map.

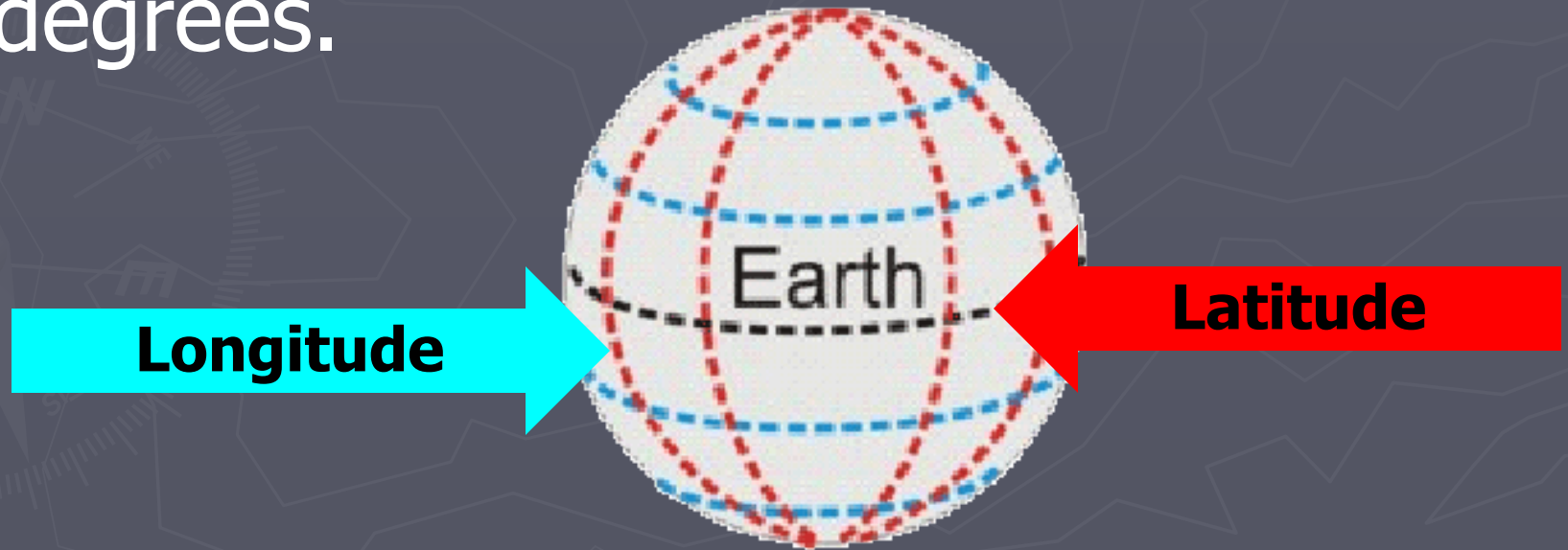
Latitude and Longitude

- ▶ The earth is divided into lots of lines called **latitude** and **longitude**.



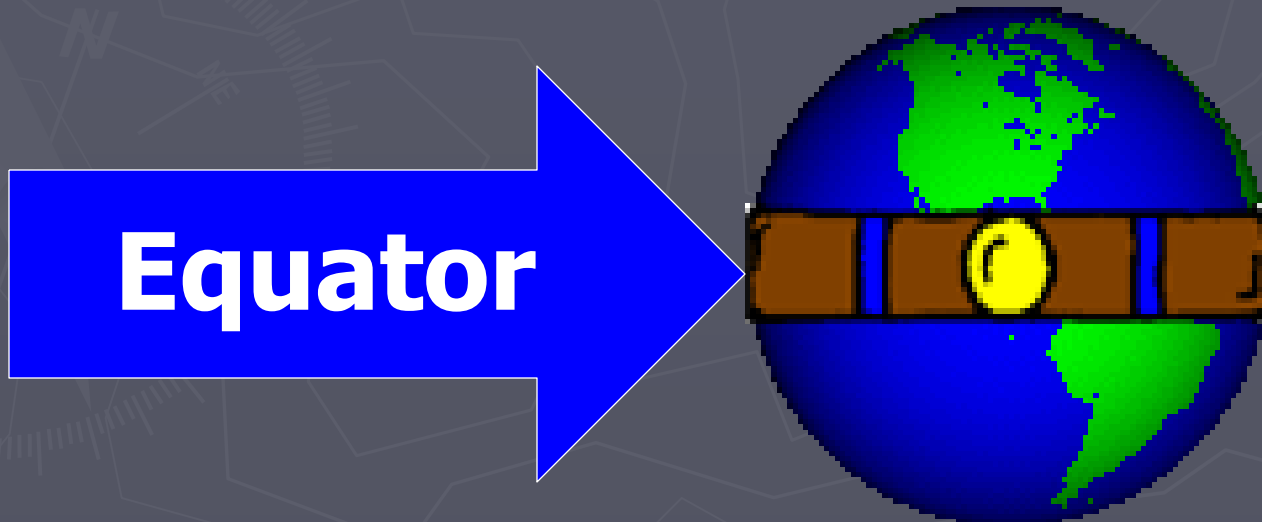
Lines

- ▶ Longitude lines run north and south.
- ▶ Latitude lines run east and west.
- ▶ The lines measure distances in degrees.



Where is 0 degree?

- ▶ The **equator** is 0 degree latitude.
- ▶ It is an imaginary belt that runs halfway point between the North Pole and the South Pole.



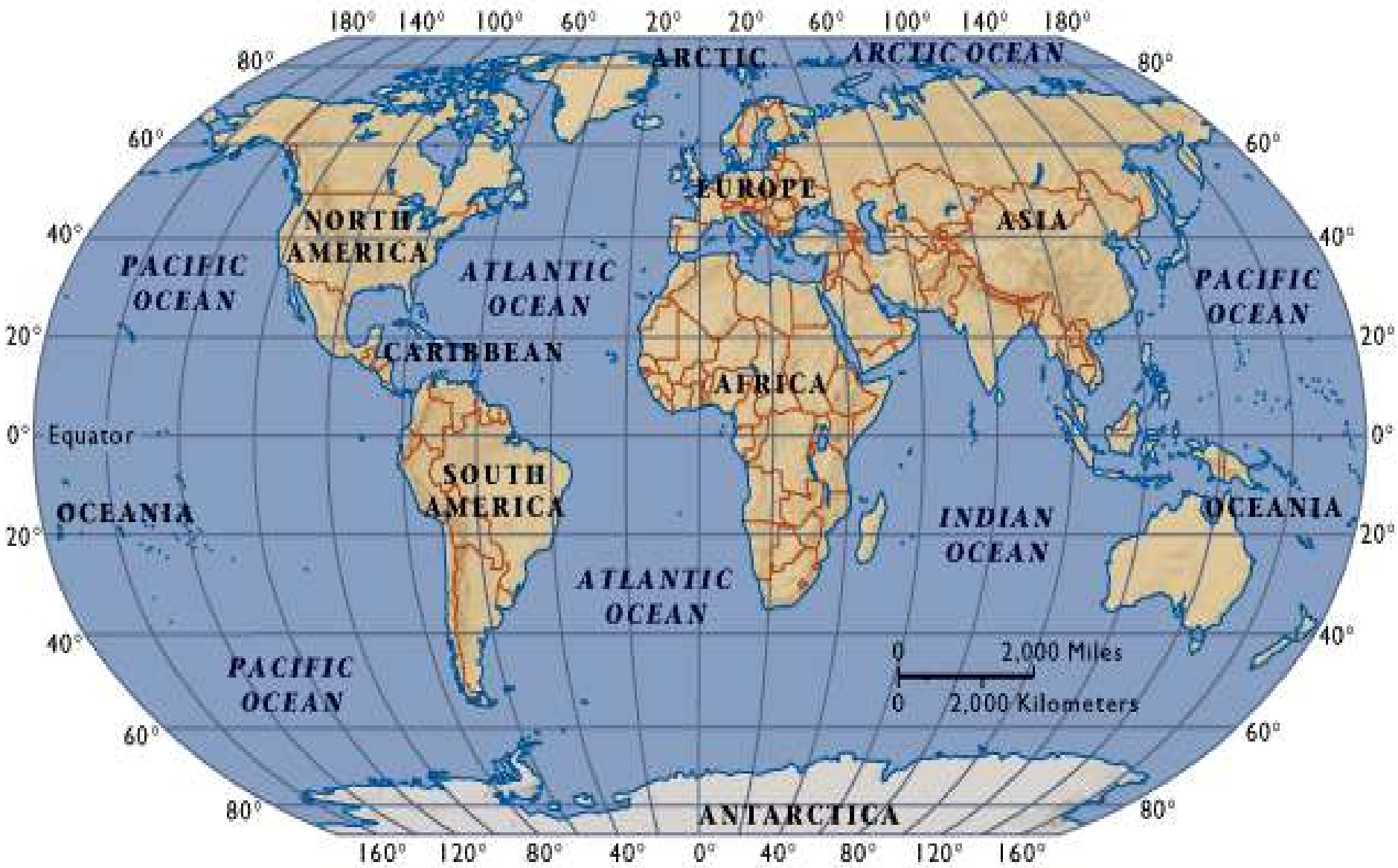
Where is 0 degree?

- ▶ The **prime meridian** is 0 degrees longitude. This imaginary line runs through the United Kingdom, France, Spain, western Africa, and Antarctica.

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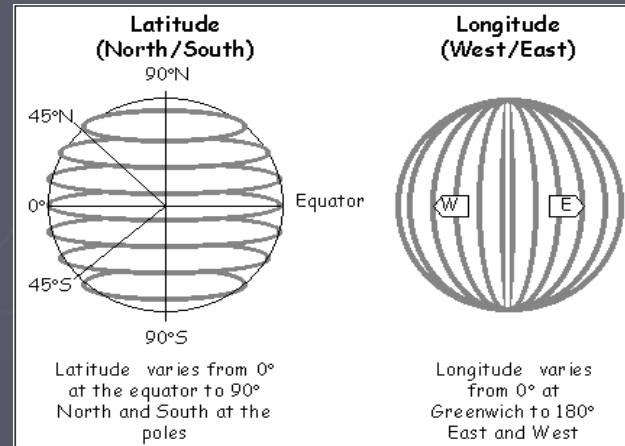


The World



Types of Locations

- ▶ **Absolute Location** – The exact position on earth. A street address is an absolute location or it can be indicate with longitude and latitude



- ▶ **Relative Location** – Location of a place in relation to another. The United States is south of Canada



Latitude and Longitude Resources

- ▶ [Latitude & Longitude Activity](#)
- ▶ [A Printable Latitude & Longitude Map of the World](#)
- ▶ [Latitude & Longitude Map Making](#)
- ▶ [Latitude and Longitude Quiz](#)

Hemispheres

- ▶ By using the equator and prime meridian, we can divide the world into four **hemispheres**, north, south, east, and west.

Hemispheres

Western Hemisphere



Eastern Hemisphere



Western

North Pole



South Pole

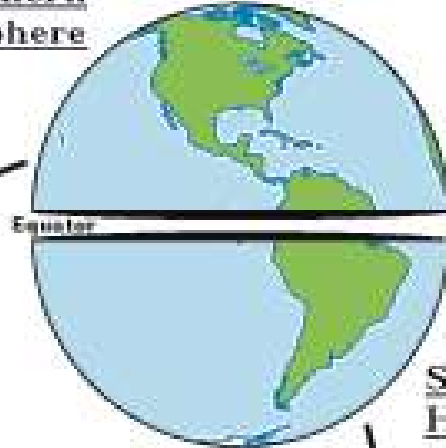
Eastern

North Pole



South Pole

Northern Hemisphere



Southern Hemisphere

Northern



Southern



Compass

- ▶ A **compass** is a tool that helps the user know what direction one is headed.
- ▶ On a map, a compass or a compass rose helps the user locate these directions.



Compass Rose

- ▶ The needle on a compass is magnetized to point to the earth's north magnetic pole. Thus with a compass, a person can roughly tell which direction they are headed.
- ▶ There are four major or cardinal directions on a compass- north, south, east & west. In between are the directions northeast, northwest, southeast, southwest.
- ▶ **Direction Quiz**



Directions

- ▶ The **cardinal directions** are north, south, east, and west.
- ▶ The **intermediate directions** are northeast, southeast, southwest and northwest.
- ▶ They help describe the location of places in relation to other places.



Scale

- ▶ Maps are made to **scale**; that is, there is a direct connection between a unit of measurement on the map and the actual distance.
- ▶ For example, each inch on the map represents one mile on Earth. So, a map of a town would show a mile-long strip of fast food joints and auto dealers in one inch.



Tennessee

NATIVE POPULATIONS

NATIVE POPULATIONS	
	Present Day Boundaries
	Native Tribal Group
	Member of Iroquois Confederacy

Scale



Time Zones

- ▶ The Earth is divided into **24 time zones**, corresponding to 24 hours in a day.
- ▶ As the earth rotates, the sun shines in different areas, moving from east to west during the course of a day.
- ▶ Places that have the same longitude will be in the same time zone.

United States

Interstate
Highway System/
Time Zones

PACIFIC



MOUNTAIN



CENTRAL



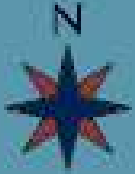
EASTERN



Pacific
Ocean

Atlantic
Ocean

Gulf of Mexico



Map Legends

- ▶ The **legend** is the key to unlocking the secrets of a map. Objects or colors in the legend represent something on the map.



Can you understand this legend?

Use of Land in Tennessee



 cattle

 manufacturing

 cotton

 sheep

 coal

 mining

 grain

 tobacco

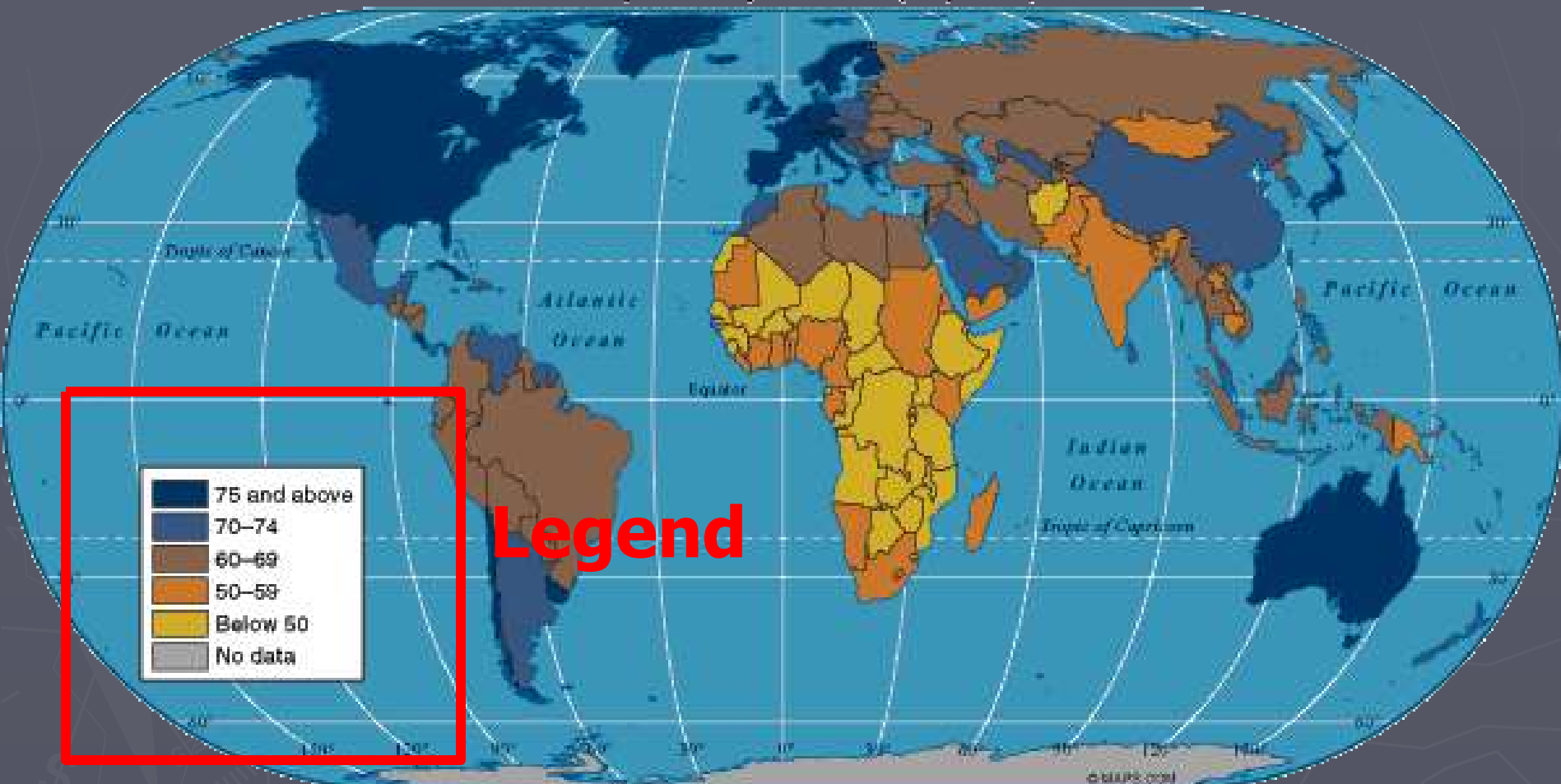
 corn

 poultry

 hogs

 tourism

Age Expectancy



Legend Reading Activities

▶ What You Can Learn From A Map

- What do Maps Show Activity
- Road Map
- Road Map Legend
- Road Map of Salt Lake City Region
- Map Worksheet

Sites to visit

- ▶ Look up [Latitude and Longitude for US Cities](#)
- ▶ [Maps and Map Skills Degrees, Latitude, & Longitude Worksheet](#)
- ▶ [Latitude and Longitude Map \(lesson plan\)](#)
- ▶ [Scale](#)
- ▶ [Time Zones](#)
- ▶ [Anchors Aweigh](#) (a map adventure)
- ▶ [Map Quiz](#)
- ▶ [Make Your Own Map](#)
- ▶ [Topography Maps](#)
- ▶ [U. S. Map Collection](#)
- ▶ [GeoSpy](#) Game
- ▶ [Globe Projector](#)
- ▶ [GeoGame](#)

Additional Sources

- ▶ Atlas - World (Holt, Rinehart and Winston)
- ▶ Outline Map of US
- ▶ Map Packet Download
- ▶ Maps.com
- ▶ National Geographic Xpeditions
- ▶ Maps & Globes

Writing Activities

- ▶ Write a paragraph describing the parts of a map. Tell the function of each part in reading a map.

