

Map Elements



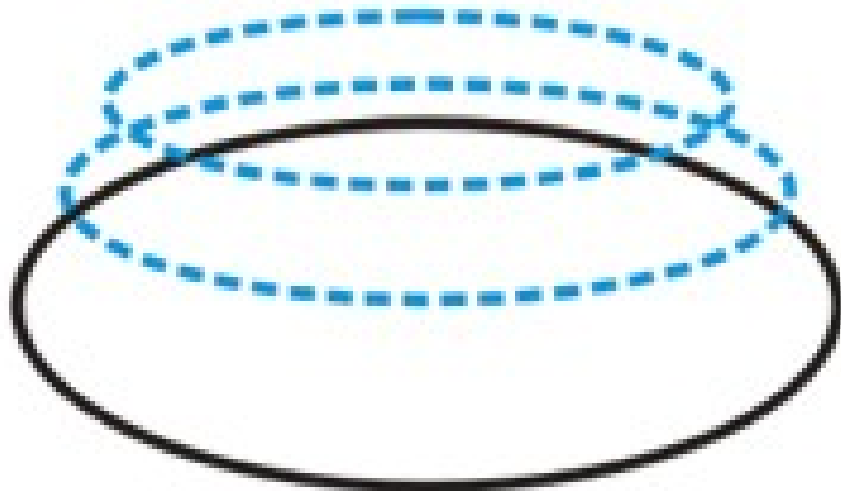
In this activity you will:

- ▶ Learn about the elements of a map: latitude, longitude, the hemispheres, directions, time zone, scale, and map legends.

Latitude and Longitude

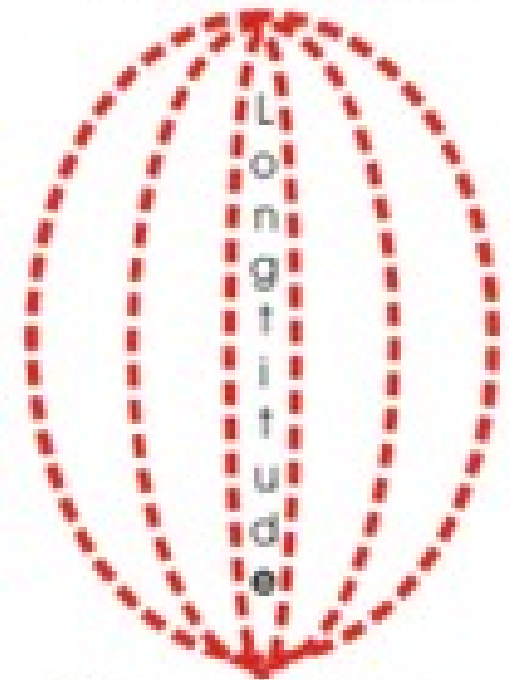
- ▶ The earth is divided into lots of lines called **latitude** and **longitude**.

Latitude



Equator

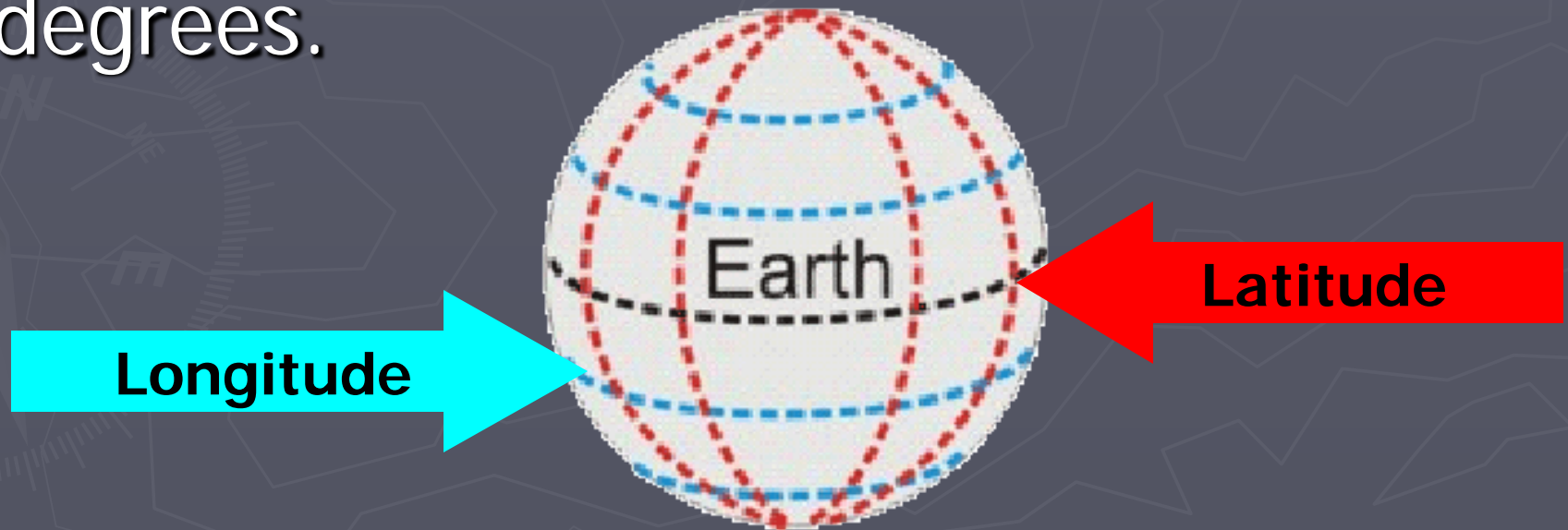
North Pole



South Pole

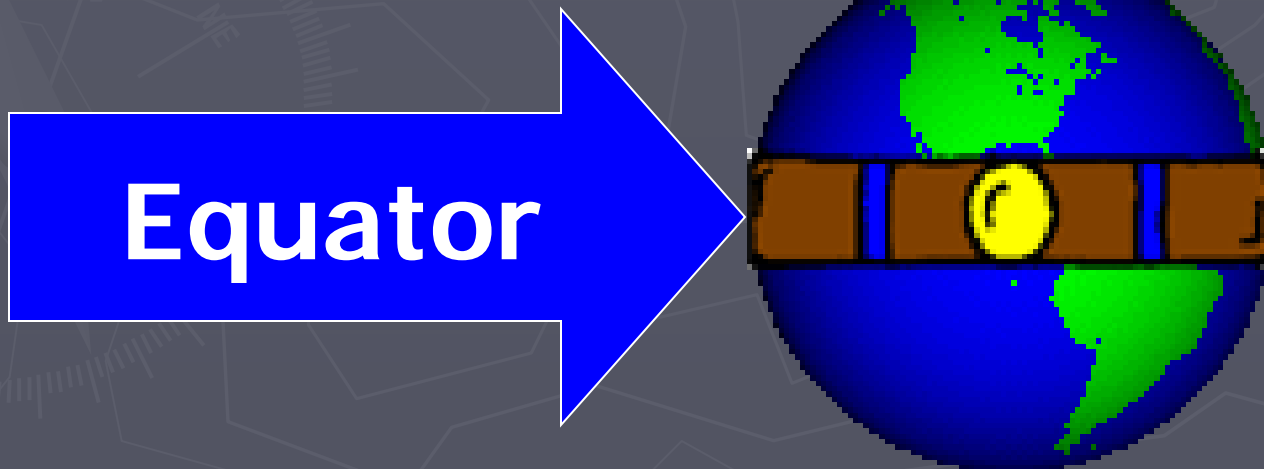
Lines

- ▶ 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.



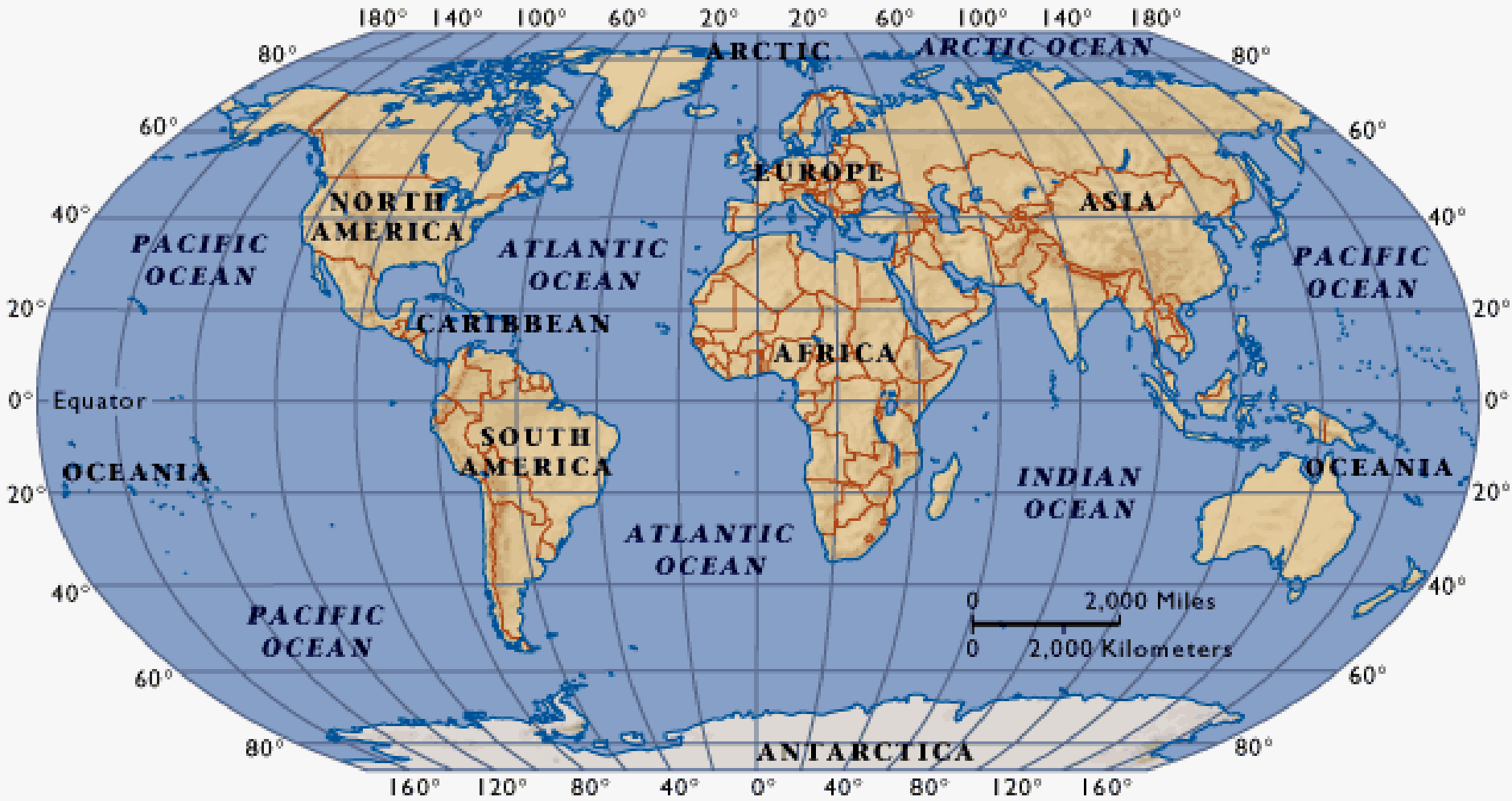
Equator

Where is the Prime Meridian?

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



The World



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

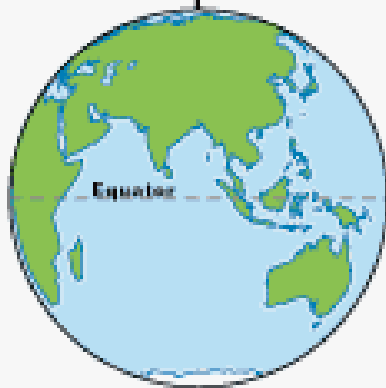
North Pole



South Pole

Eastern

North Pole



South Pole

Northern Hemisphere



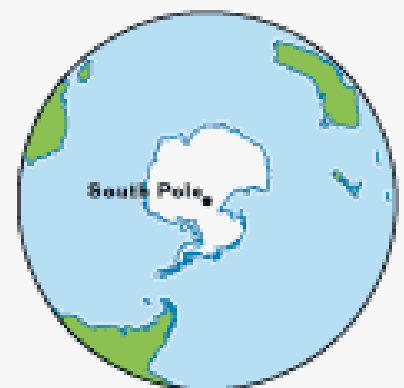
Southern Hemisphere



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



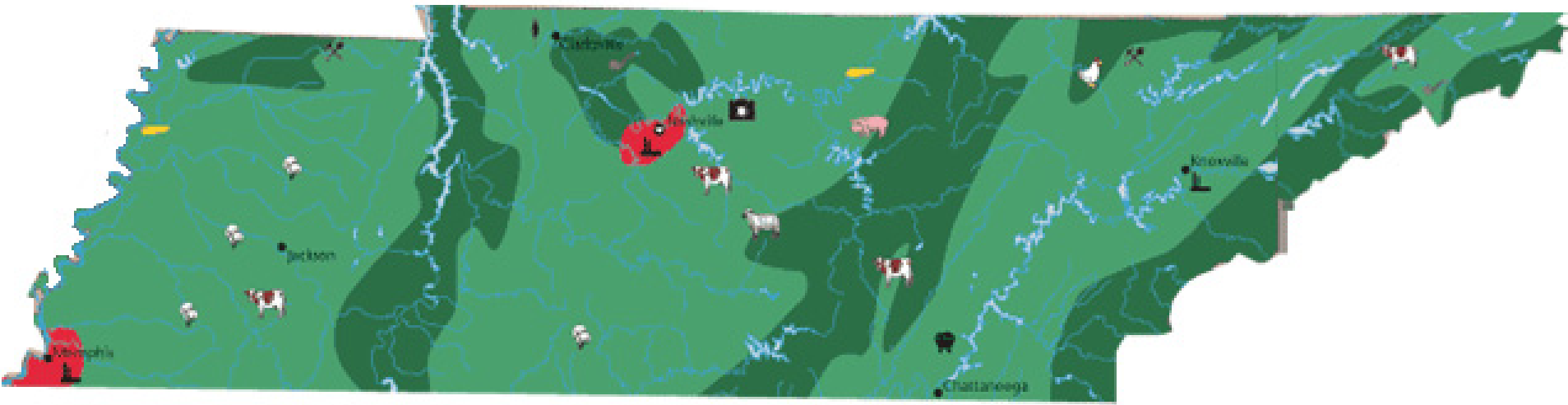
Map Legends

- ▶ 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

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

Additional Sources

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