

MAPS (Part 2)

STANDARD: Latitude and longitude can be used to identify absolute location.

I can statements:

- I can use a map's coordinates of latitude and longitude to identify the absolute locations of different places.

VOCABULARY:

- Pangaea- It was a _____ from the Mesozoic and Paleozoic eras
- Longitude- Imaginary lines that _____ north and south and _____ west and east of the prime meridian
- Latitude- Imaginary lines that _____ west and east and _____ north and south of the equator
- Hemisphere- _____ of a _____
- Prime Meridian- an imaginary _____ line. It will always be at _____ longitude. Divides the earth into western and eastern hemispheres.
- Equator- an imaginary _____ line drawn around the middle of the earth. It is always at 0° latitude. Divides the earth into northern and southern hemispheres.
- Parallels- another name for _____
- Meridians- another name for _____
- Absolute Location- _____ on earth where a place can be found (this is when you use longitude and latitude)
- Climate- _____ in a place over a long _____ of _____
- Tropic of Cancer- _____ (important line of latitude, northern border of tropics)
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- Antarctic Circle- imaginary line of *latitude* at _____
- International Date Line- _____ of longitude; where _____
- Time Zones- _____ in a day= 24 time zones (based on lines of _____)

Latitude = YELLOW

Longitude = ORANGE

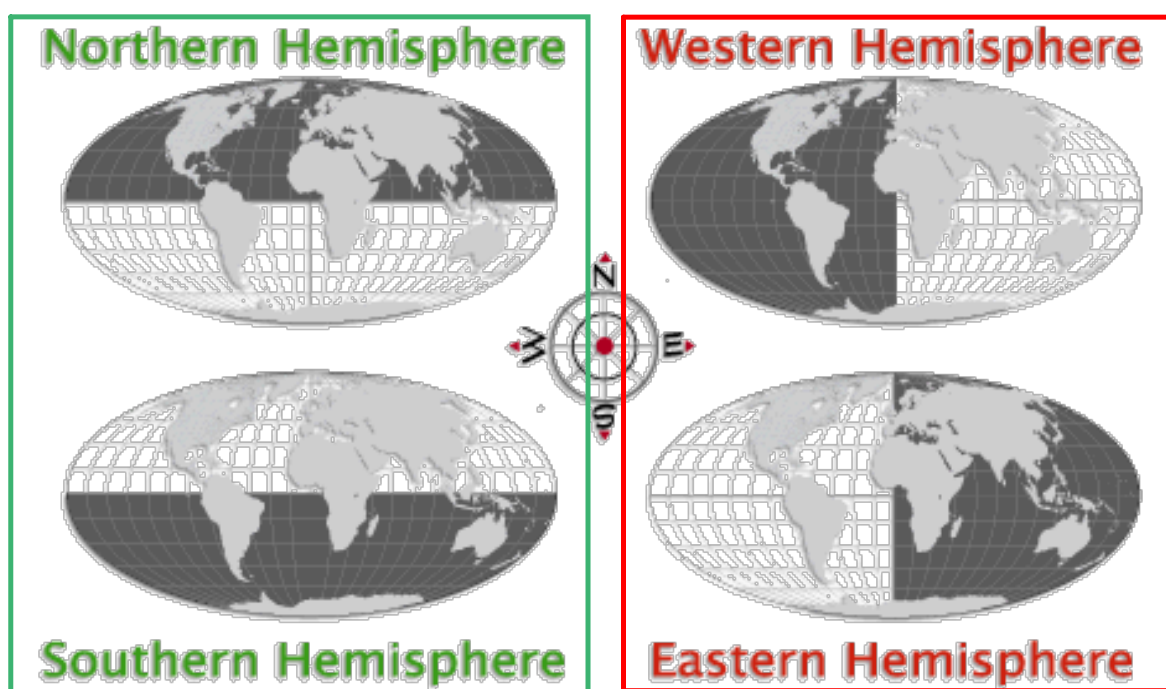
Pangea

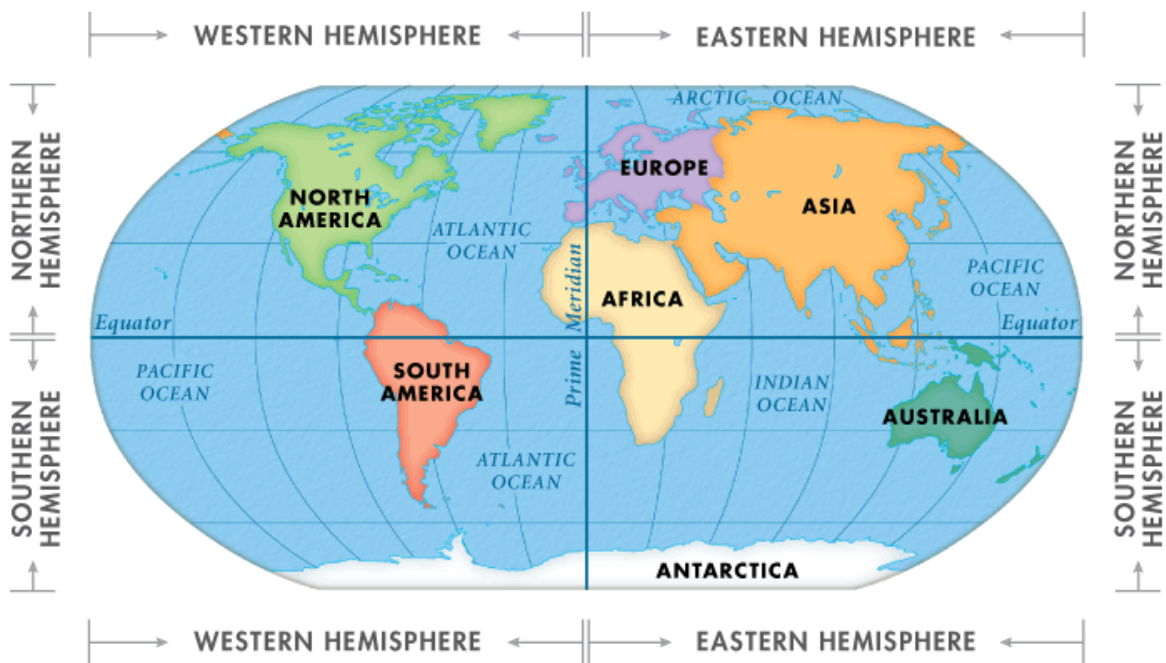


Add a pangea link to here

There are 4 hemispheres

Hemispheres are divided using the **Equator (north and south)** and **Prime Meridian (west and east)**





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Northern Hemisphere



Equator



Southern Hemisphere

Western Hemisphere

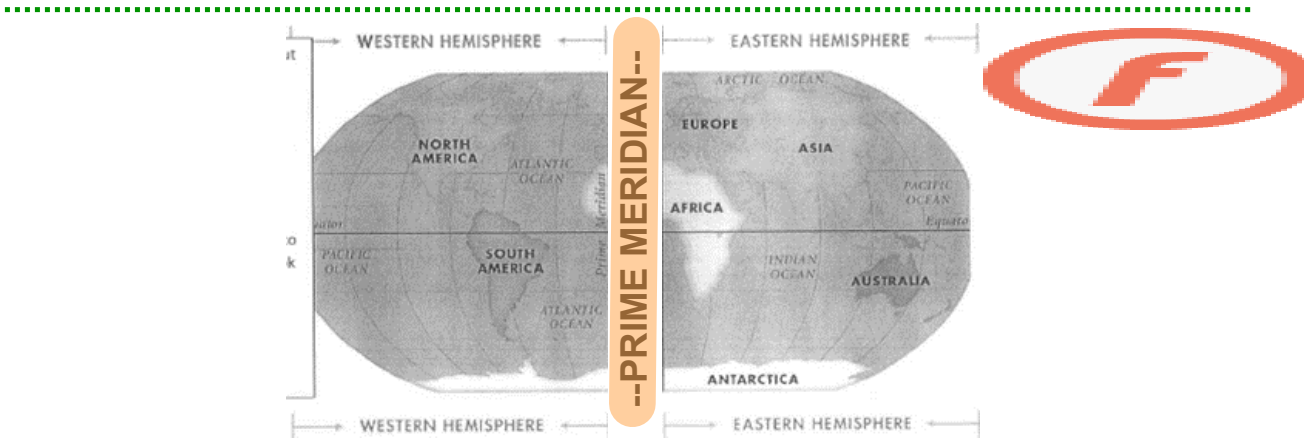
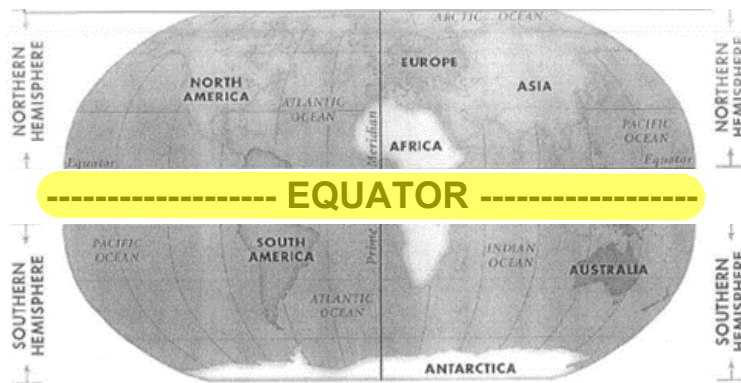


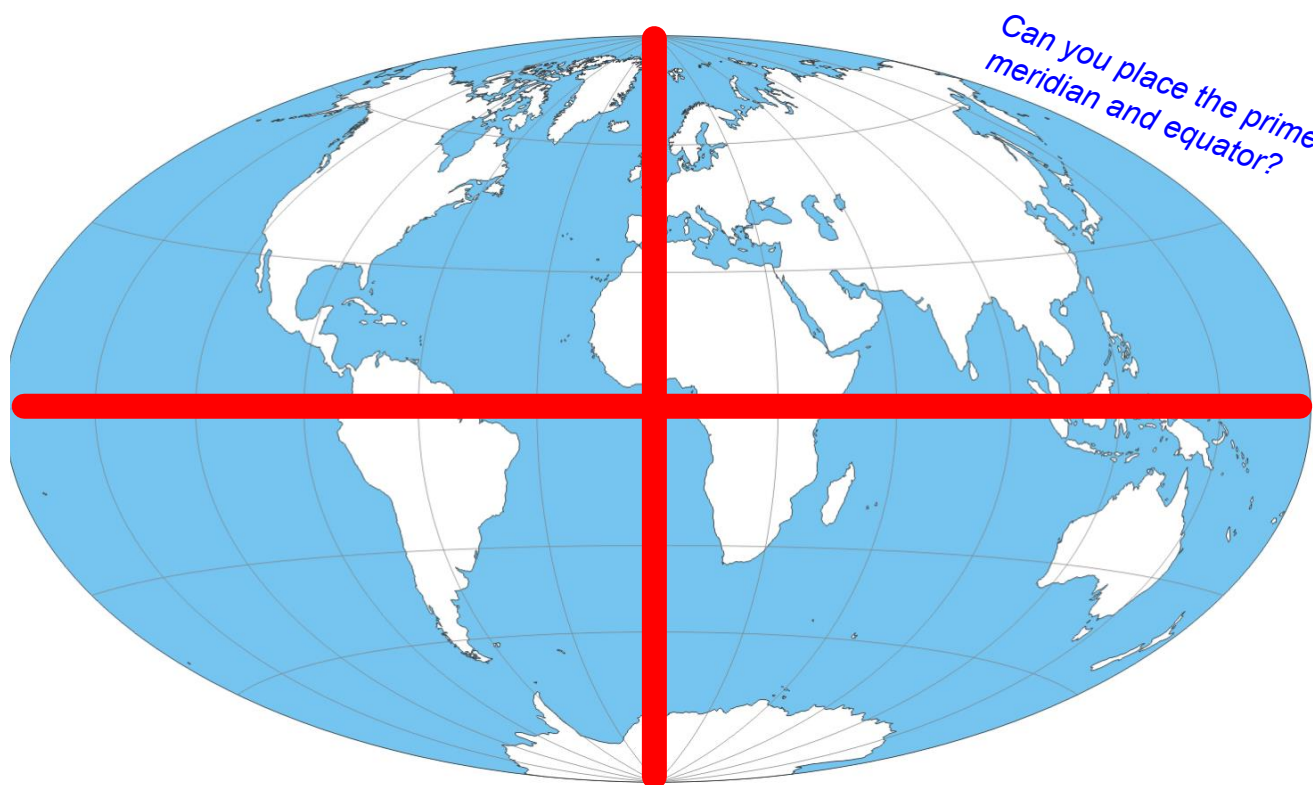
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Prime Meridian

Eastern Hemisphere



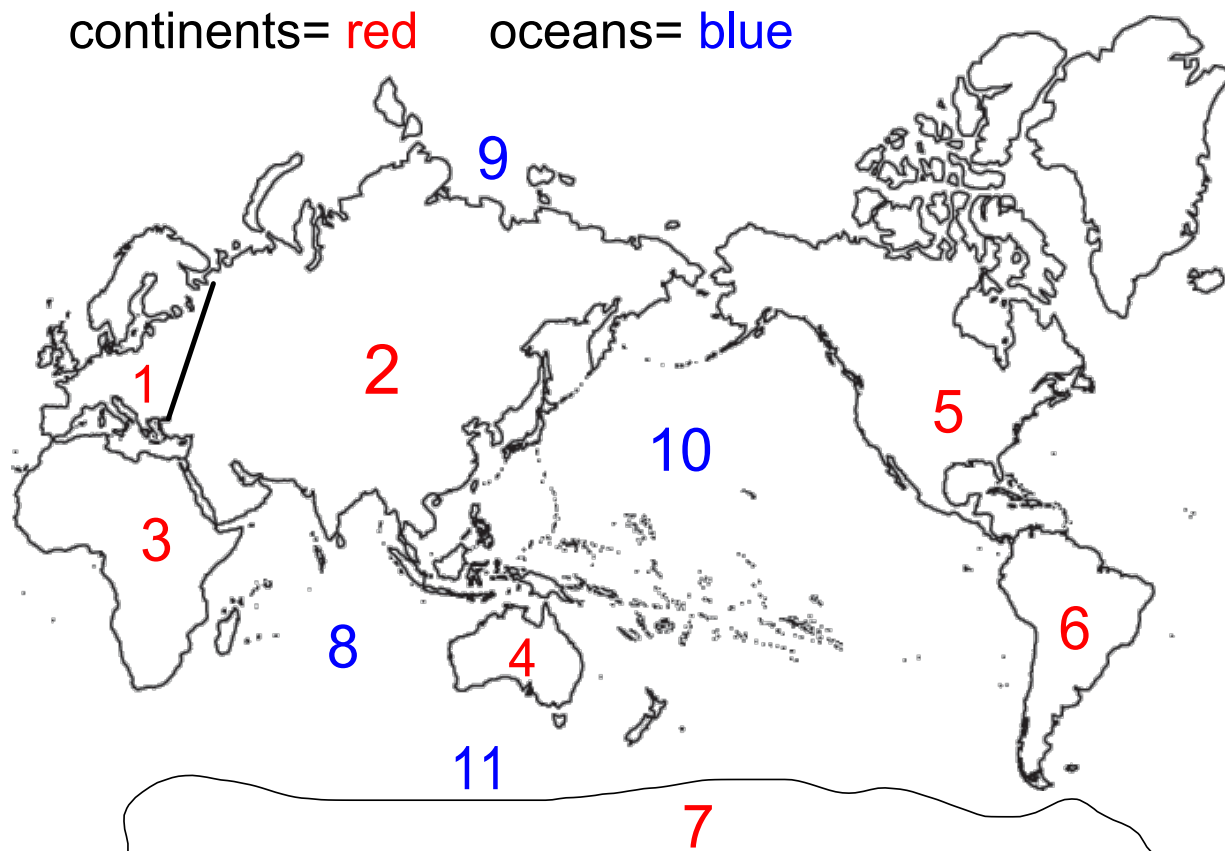


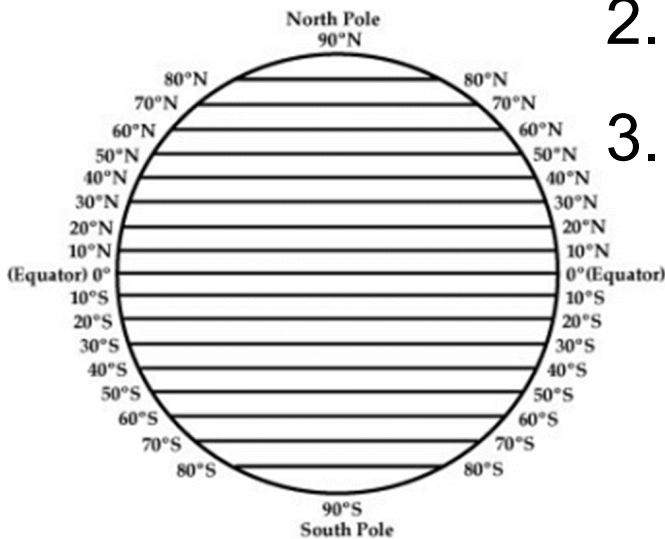


Can you place the prime meridian and equator?

Warm-up: Complete this in your notebook.

continents= red oceans= blue

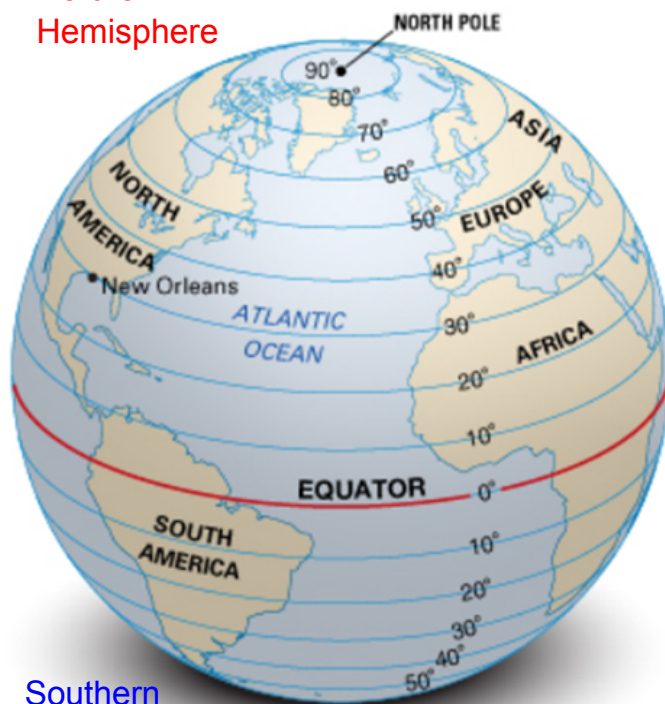




Class Schedule

1. What is latitude
2. Plotting latitude
3. Latitude vs. climate

Northern
Hemisphere

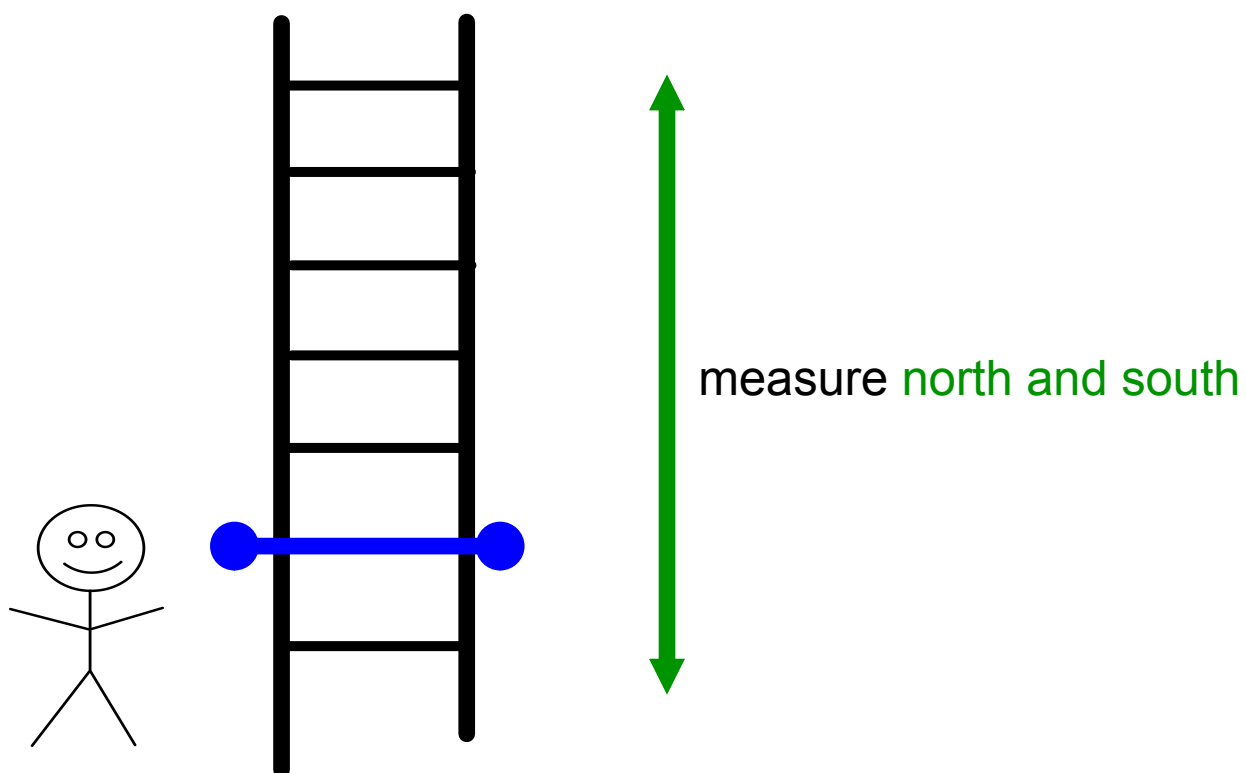


Southern
Hemisphere

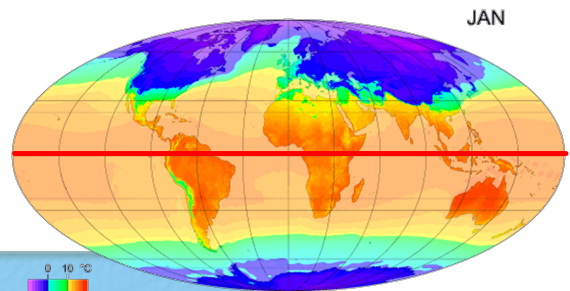
Lines of Latitude

- Measured in degrees(°)
- Starts at the equator with 0°
- From the top to bottom of Earth, there are 180° in all
- 90° are found between the equator and the North Pole, and another 90° is between the equator and south pole
- Known as parallels (they will never touch)
- Run in a west to east direction
- Get shorter at the poles (equator is the longest line)

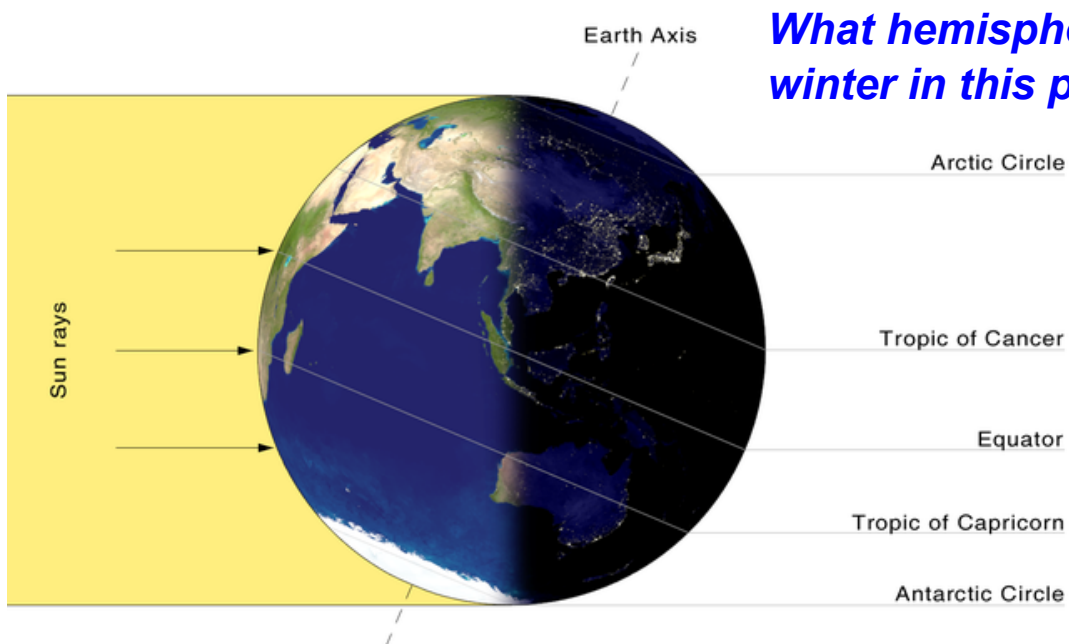
Latitude- run in an **east to west** direction



The tropics do not experience many differences in seasons because the sun is always high in the sky.



What places are in the tropics?

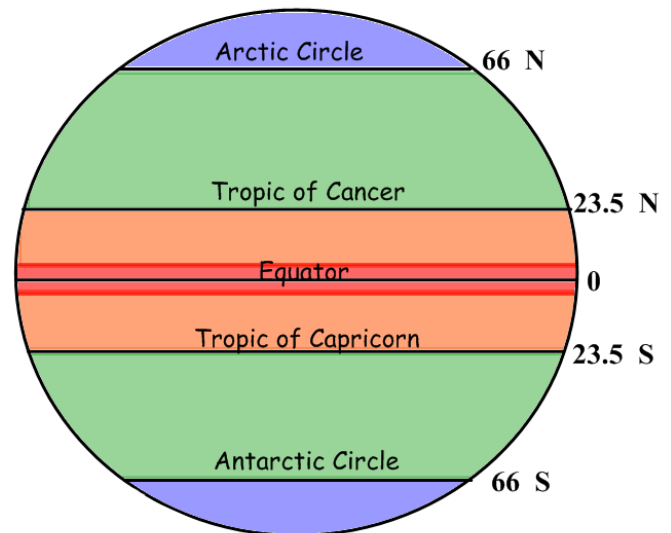


What hemisphere has winter in this picture?

- Proximity (how close or far) to the equator effects a regions climate.
- Closer to the equator= hotter
- Farther from equator = cooler

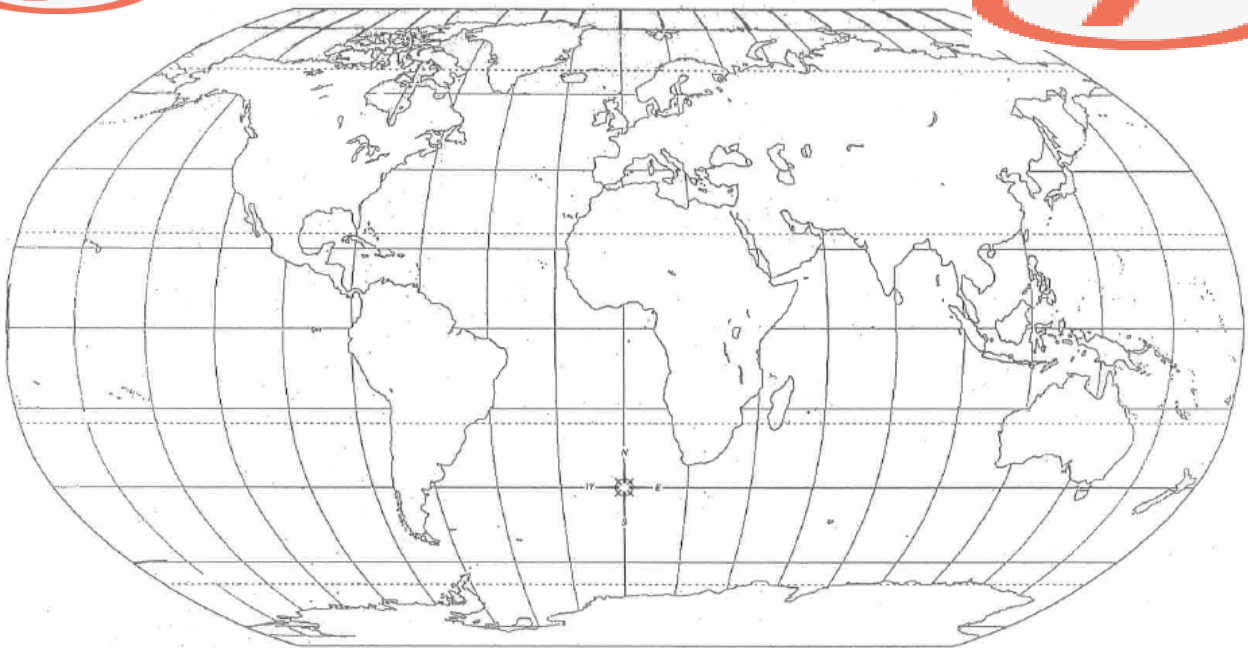
Let's make a key!

Latitude Location Effects Temperature



- Polar = cold year round (color blue)
- Temperate= cool winters warm summer (color green)
- Tropical = hot year round (color orange)
- Equator (color red)

CLIMATE ZONES



POLAR

"cold year round"

TEMPERATE

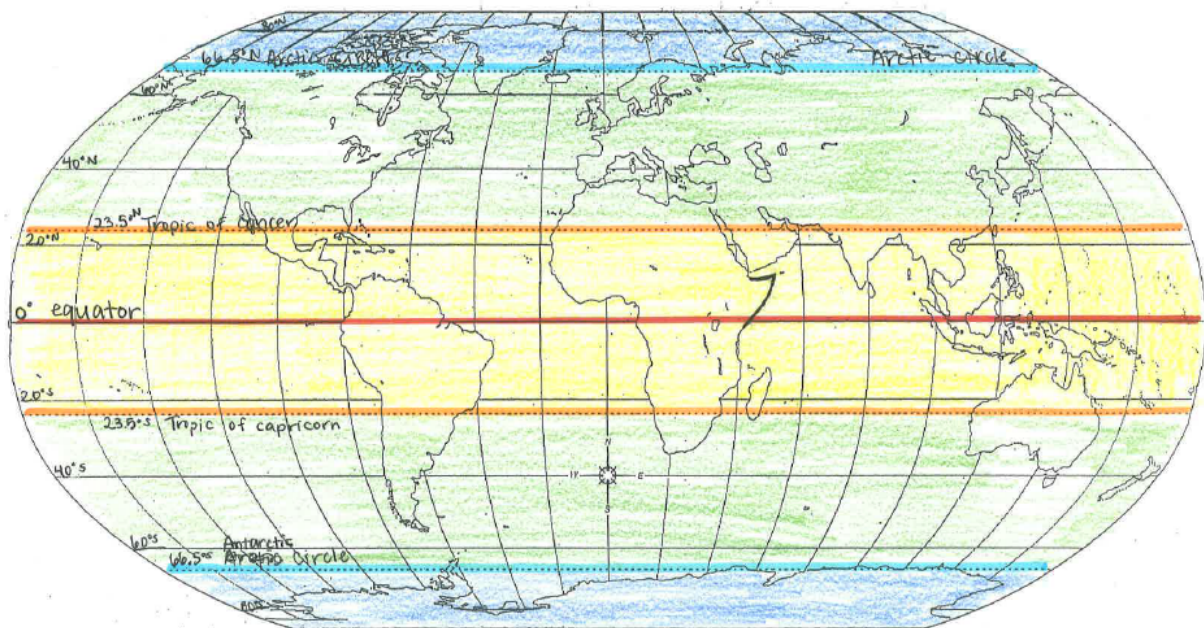
"cool winters,
warm summers"

TROPICS

"hot year round"

EQUATOR

CLIMATE ZONES

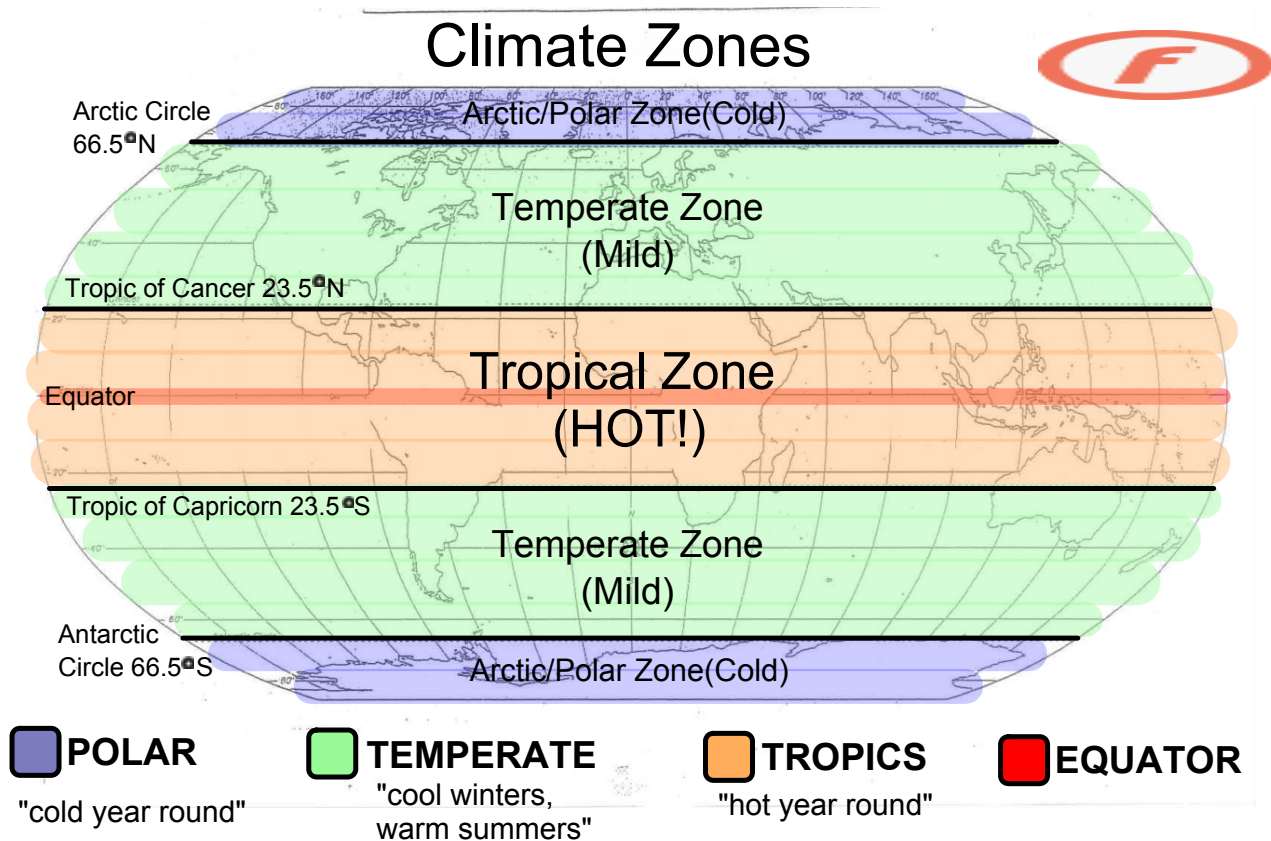


POLAR
"cold year round"

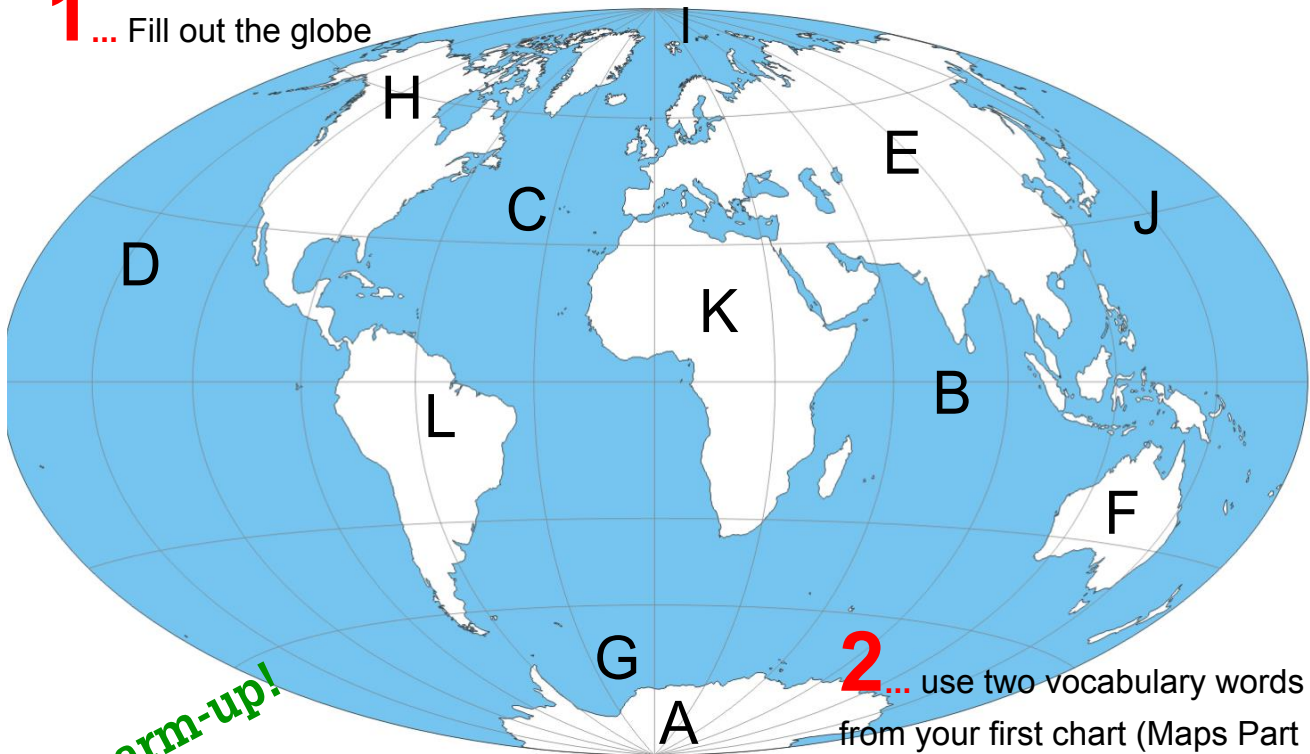
TEMPERATE
"cool winters,
warm summers"

TROPICS
"hot year round"

EQUATOR



1... Fill out the globe



warm-up!

2... use two vocabulary words from your first chart (Maps Part 1) to write in a sentence.

Western Hemisphere



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Prime Meridian

Eastern Hemisphere



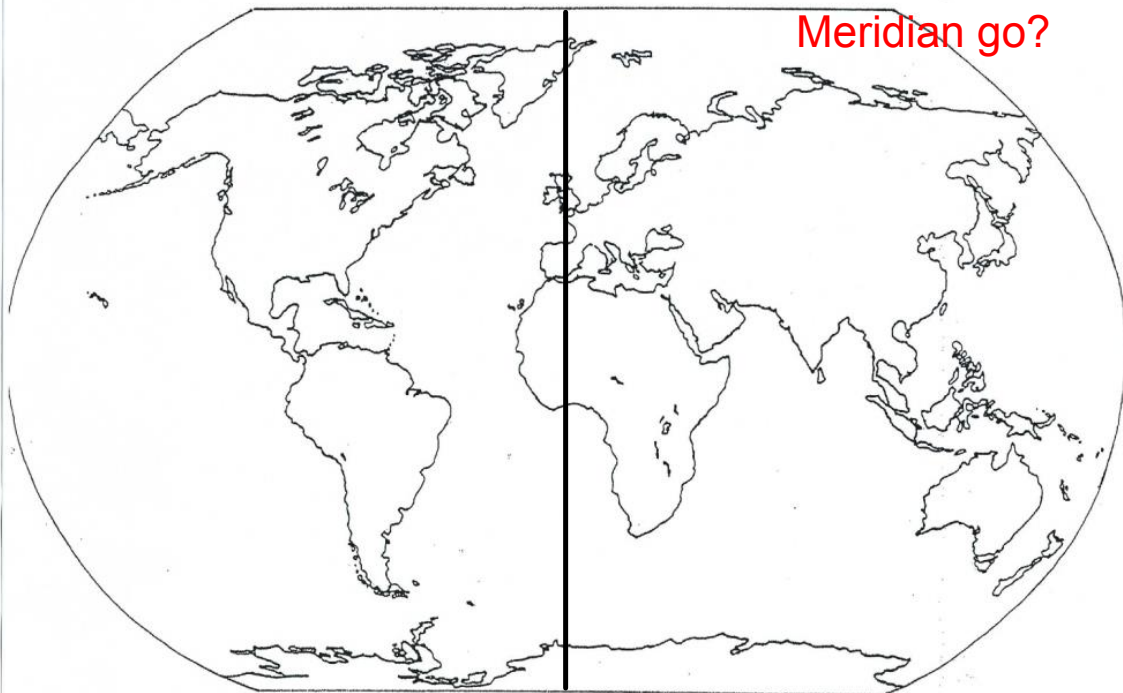
Longitude

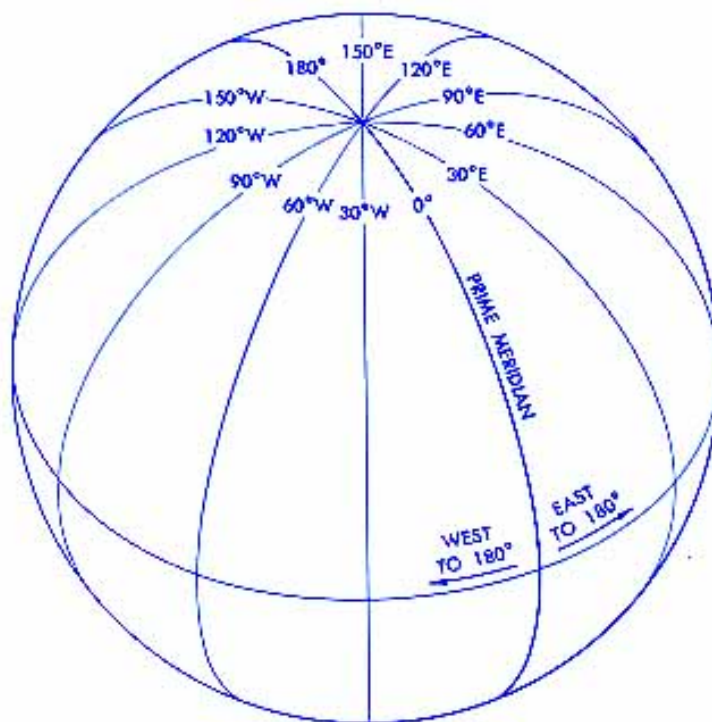


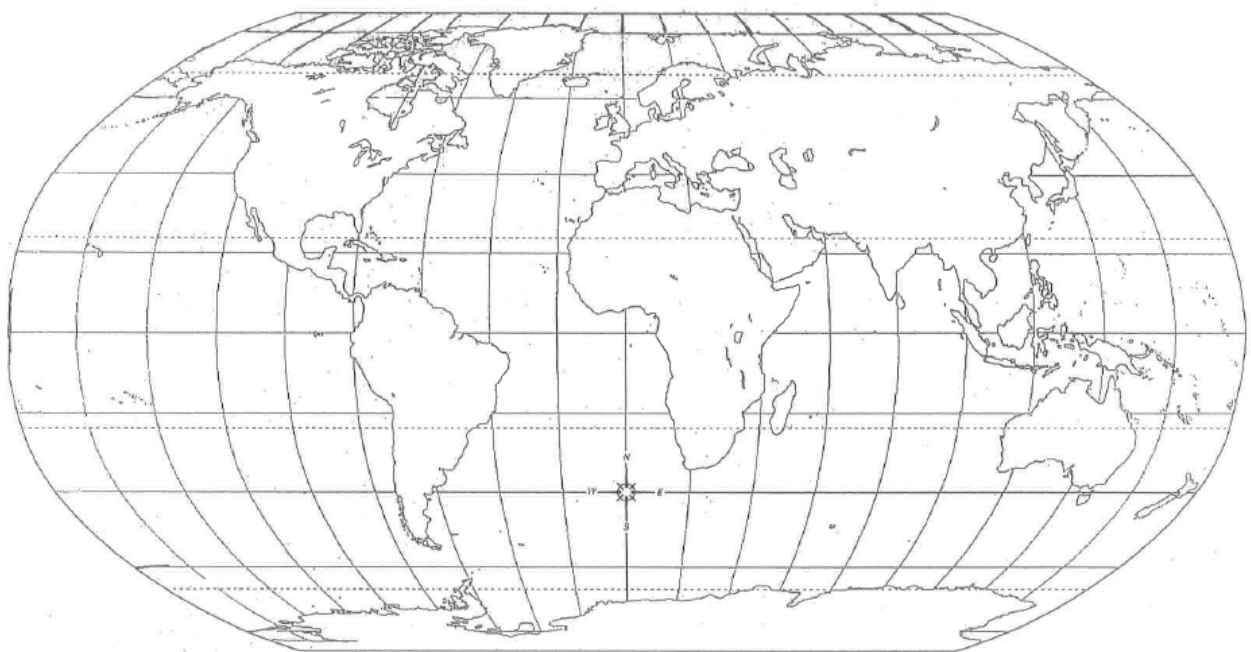
- Imaginary lines that go vertically around the earth from north to south (they meet at the two Poles).
- Also called meridians
- The prime meridian in Greenwich, England is 0°
- Going in either direction from the Prime Meridian, we mark longitude lines as increasing from 1° to 180° and are labeled W or E (west or east of the prime meridian)
- Longitude lines are NOT parallel so they are not always the same distance from one another

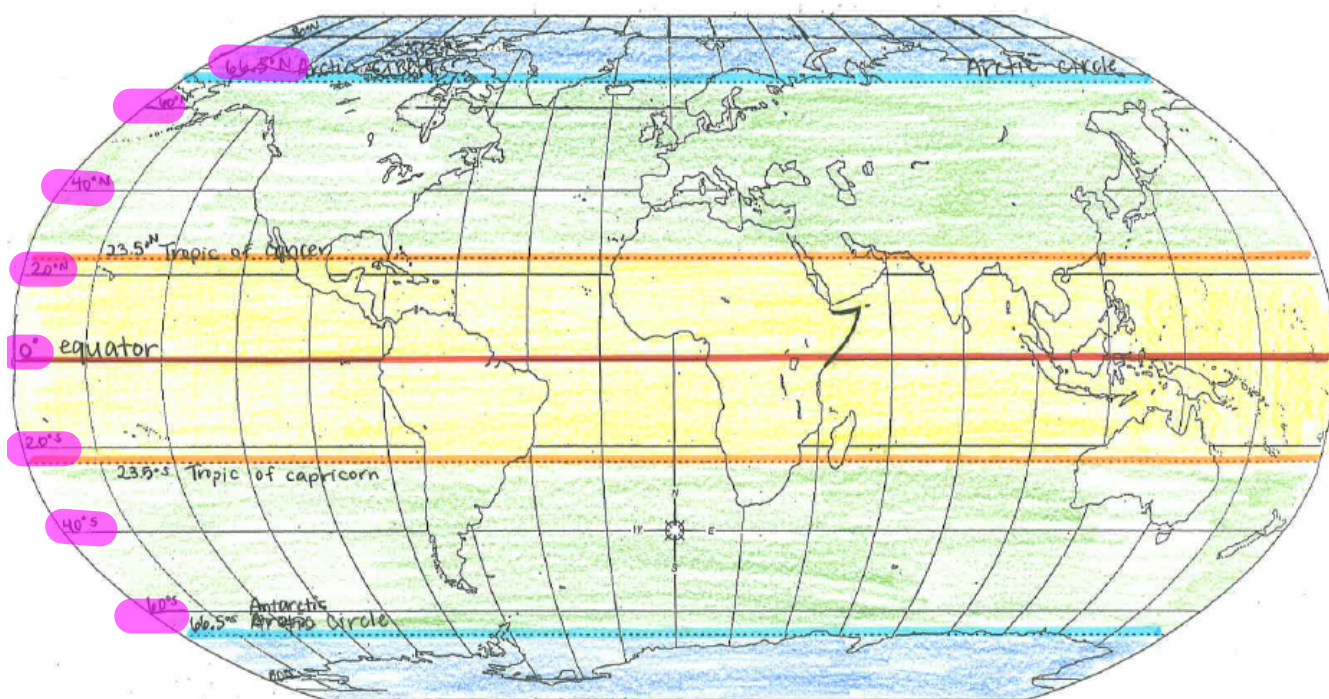
Longitude

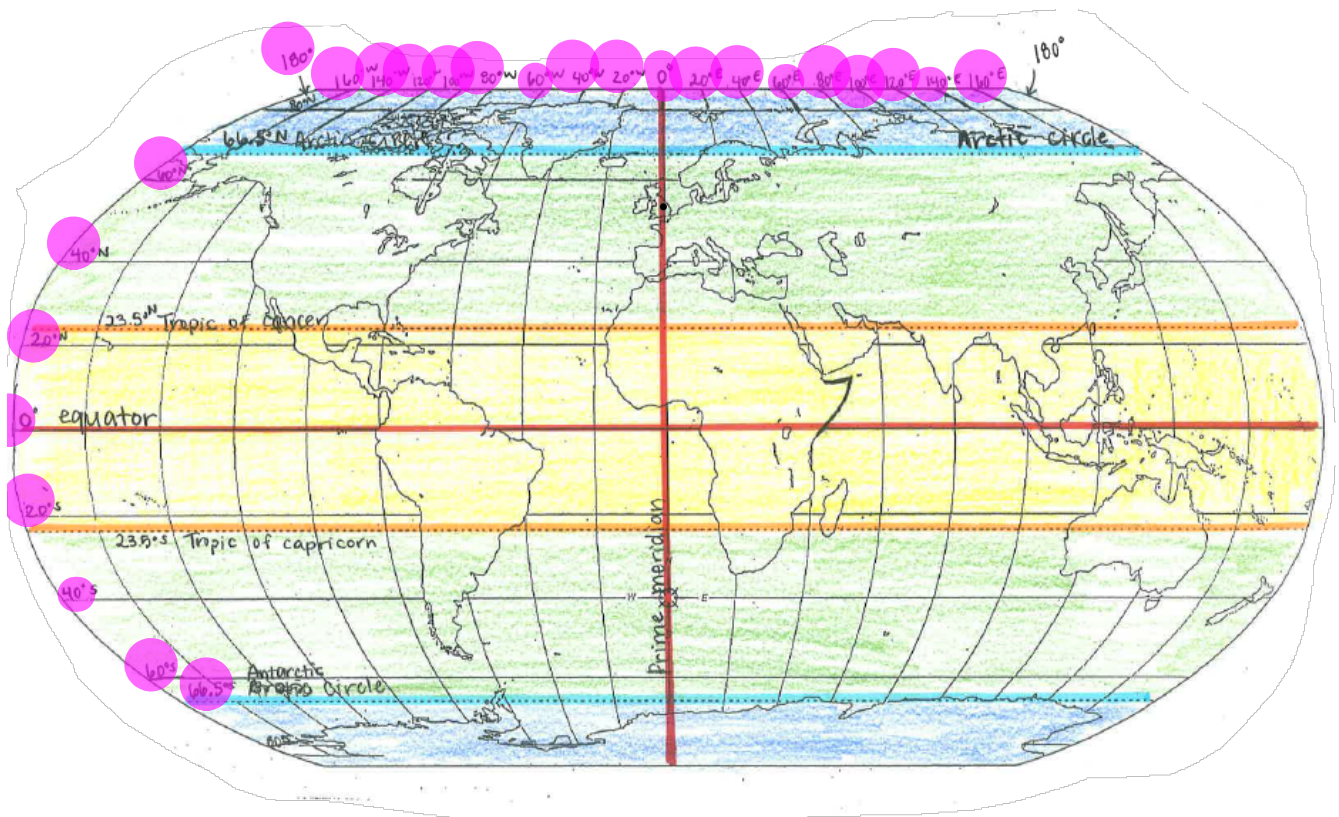
Where does the Prime Meridian go?











Which belong to **LATITUDE** and which belong to **LONGITUDE**?

MAPS (Part 2)

GET YOUR
HIGHLIGHTERS
OUT!

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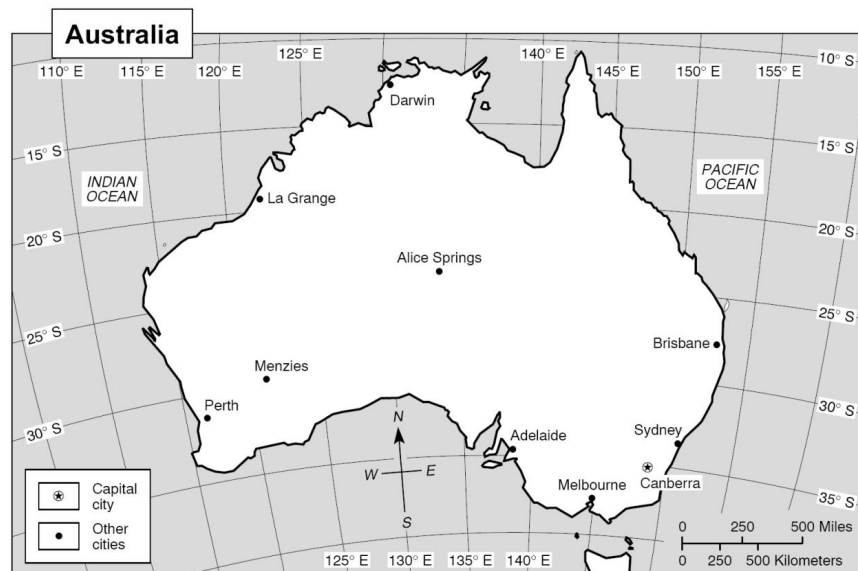
Longitude = ORANGE

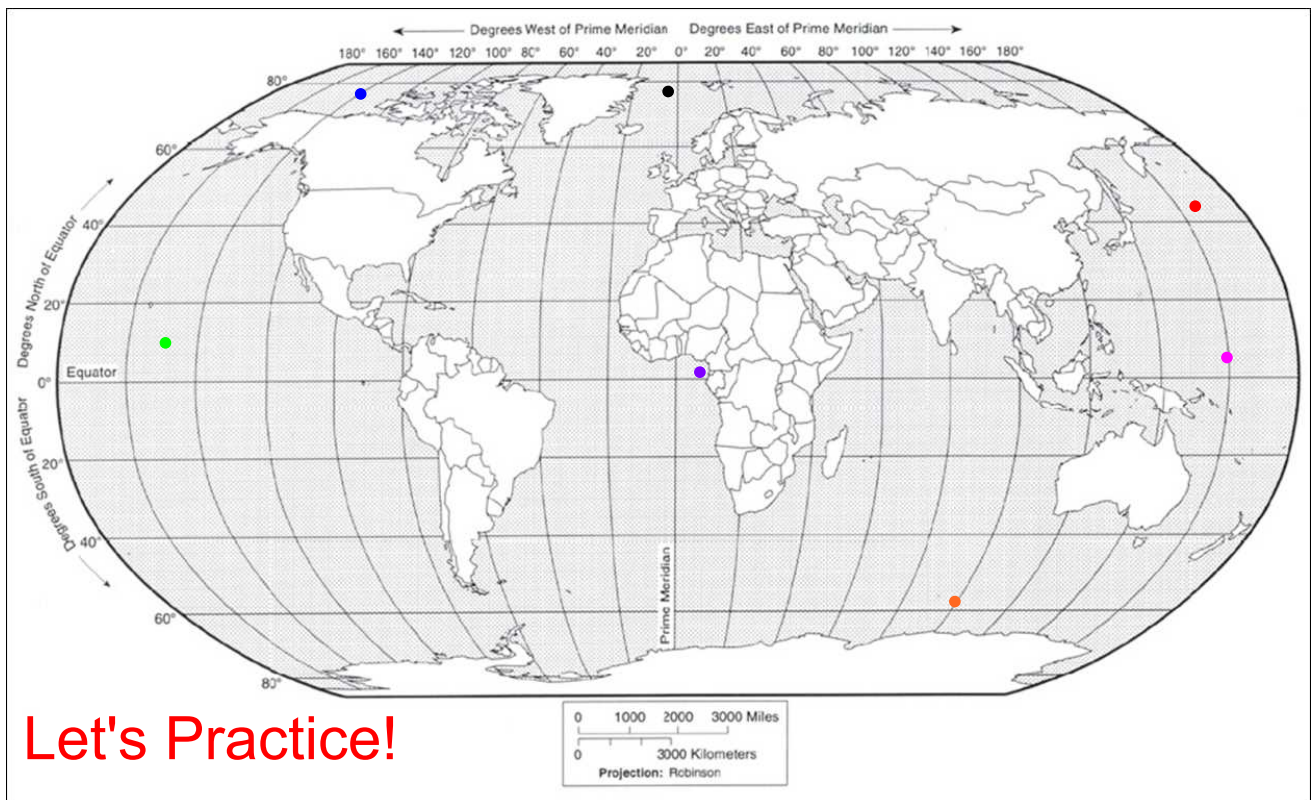
STOP

Go To Grid Doc

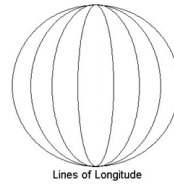
Warm-up: Take out your homework and find the absolute location of La Grange and Darwin

Remember... find latitude first then longitude!



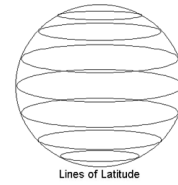


Longitude



Lines of Longitude

Latitude



Lines of Latitude

Maximum is 90°

Time Zones

Lines measure north and south

Tropic of Cancer

Maximum is 180°

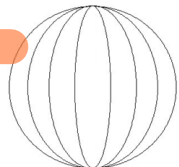
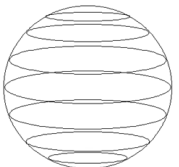
Lines run east and west

Equator

Tropic of Capricorn

Lines run north and south

Warm-Up: Take out your homework from last night and create the chart below. THEN do your best to sort each word under the correct area.

Longitude	Latitude
 <p>Lines of Longitude</p>	 <p>Lines of Latitude</p>
<hr/>	
	<ul style="list-style-type: none"> arctic circle tropic of capricorn parallels meridians tropic of cancer international date line prime meridian equator climate time zones antarctic circle

NAME: _____ PERIOD _____

Lesson 5 Finding Places Using Latitude and Longitude

WHAT YOU WILL LEARN

To locate places using latitude and longitude

READING STRATEGY

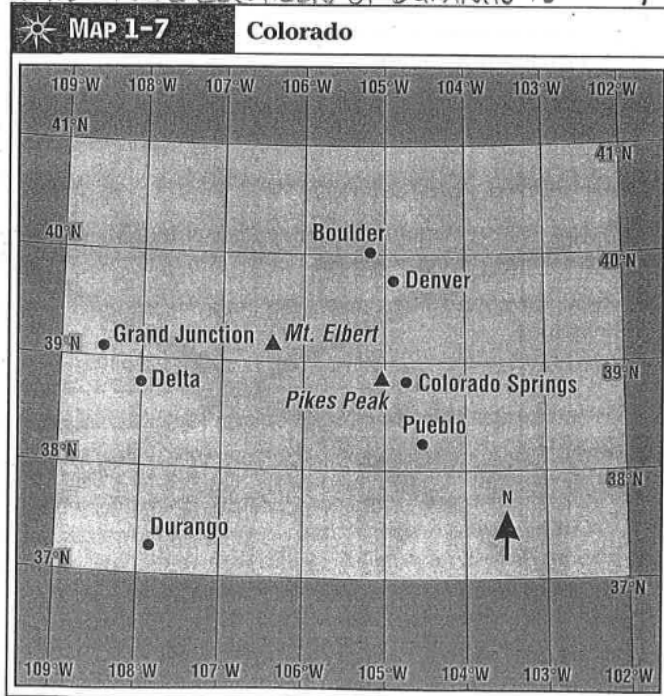
Create a flowchart like the one below to explain how to find a place using latitude and longitude.



Finding places using latitude and longitude is just like using a grid, as you learned about in Lesson 3. Look at Map 1-7. Notice that each degree of latitude and longitude is shown. Find the line for 40°N latitude. What city is located at this latitude? What line of longitude is closest to this city? We say that Boulder is located at about 40°N latitude, 105°W longitude. Remember that when we write the location of a place using latitude and longitude, latitude is always written first.

Now look at the city of Delta. What line of latitude is closest to Delta? What line of longitude runs through Delta? We say that Delta is located at about 39°N latitude, 108°W longitude. This is Delta's absolute location. What is the absolute location of Durango?

↳ ABSOLUTE LOCATION OF DURANGO IS _____



A PRACTICING MAP SKILLS

Answer these questions about Map 1-7: Colorado.

1. Which line of latitude runs near Pikes Peak? _____
2. Which line of longitude runs near Pikes Peak? _____
3. Write the location of Pikes Peak using latitude and longitude.

4. Which line of latitude runs nearest Pueblo? _____
5. Which line of longitude is closest to Pueblo? _____
6. Write the location of Pueblo using latitude and longitude.

7. What city is near 39°N latitude, 105°W longitude? _____
8. What city is located at about 39°N latitude, midway between 108° and 109°W longitude?

9. Which line of longitude is at Colorado's eastern border? _____
10. Which line of latitude runs nearest Mt. Elbert? _____

B PRACTICING MAP SKILLS

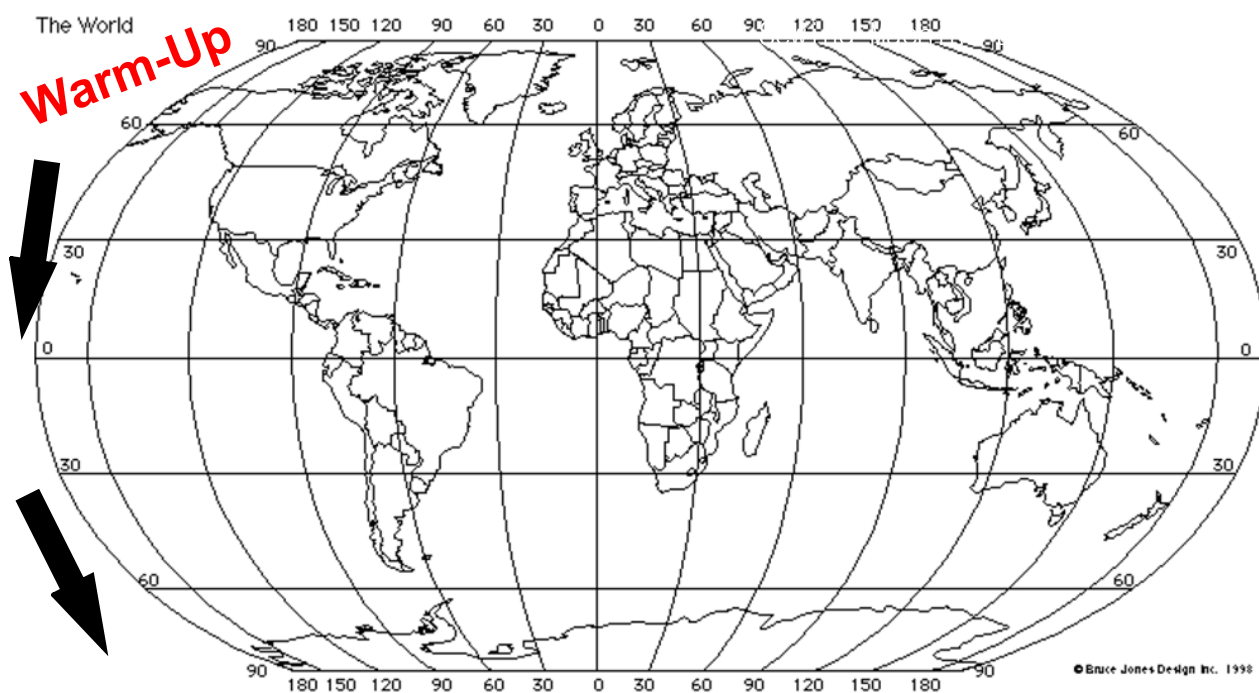
Use a map of your state that includes lines of latitude and longitude to complete the following activities.

1. Write the approximate location of your city using latitude and longitude.

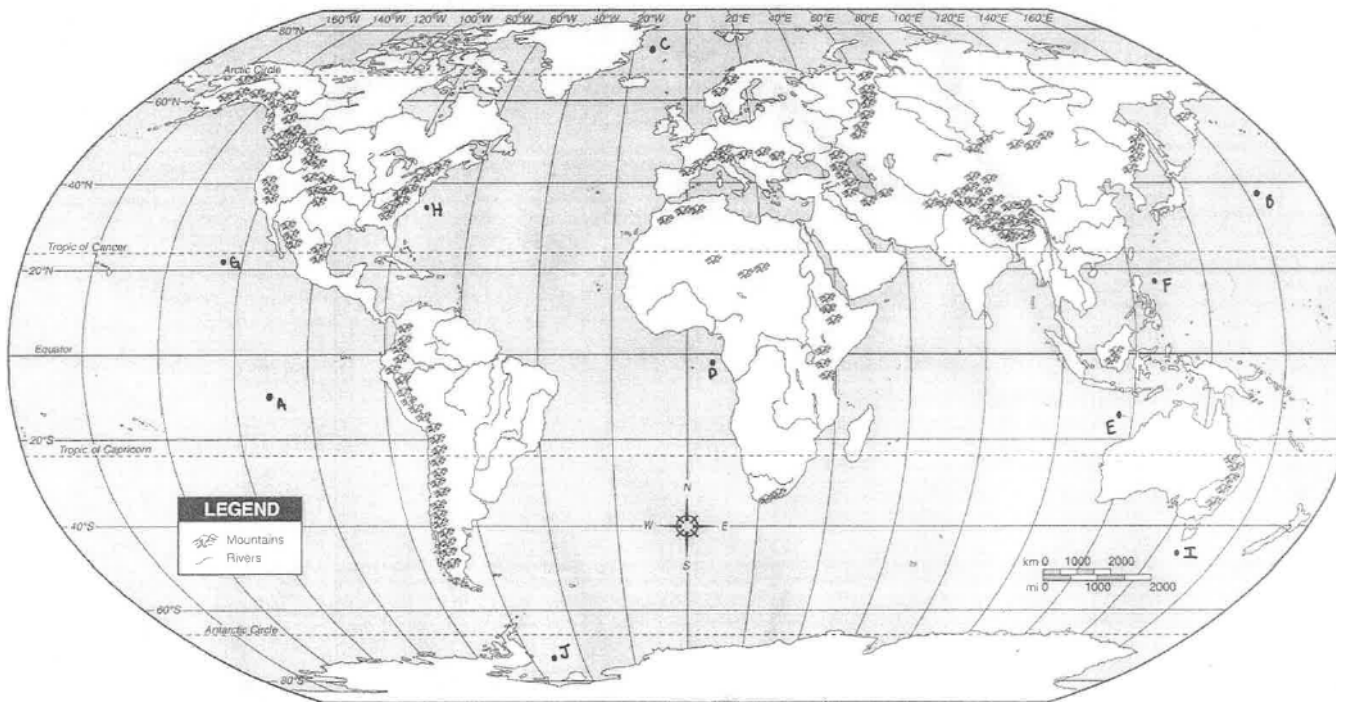
2. Write the approximate location of your state capital using latitude and longitude.

3. Select a popular recreation area in your state, such as a national park, national forest, or large lake. Write the name of this recreation area and its approximate location latitude and longitude.

Skip these
3 questions



1. What ocean would you be in if your plane crash landed at 30° South Latitude by 120° West Longitude? _____
2. What country is located at 60° North Latitude by 90° East Longitude? _____
3. On what continent would you be if you were located at 0° Latitude by 30° East Longitude? _____
4. What is located at 30° South Latitude by 90° East Longitude? _____
5. Give me the coordinate that is found in the country of Argentina? _____



What are different ways you can study for your summative?

- create a game
- find a quiet place to study
- time management!
- break up material
- quiz yourself
- make up funny ways to remember the information

Tuesday, September
15th Make A Hat Day

Warm-Up: Take out your study guide from this weekend *then* arrange these locations from **west to east** in the boxes below, based on their **longitudes**.



25°N, 5°E

0°N, 18°E

80°N, 125°W

7°S, 85°E

38°N, 65°E

West  East

Fill in the chart using the words below – are the terms latitude or longitude?

- | | | |
|---------------------------|-------------------------------|------------------|
| Equator | lines measure north and south | Tropic of Cancer |
| International Date Line | Tropic of Capricorn | Arctic Circle |
| Time zones | Lines measure east and west | Antarctic Circle |
| Maximum is 90° | Maximum is 180° | Climate |
| Lines run north and south | lines run east and west | Prime Meridian |

Latitude	Longitude

Plotting Practice

Plot the following points on the map:

- A** 40° S, 60° W
- B** 60°N, 100°E
- C** 80°N, 30°W
- D** 0°, 20°E
- E** 0°, 0°
- F** 30°N, 40°E
- G** 51°S, 65°E
- H** 15°N, 80°W
- I** 42°N, 143°E
- J** 57°S, 74°E

