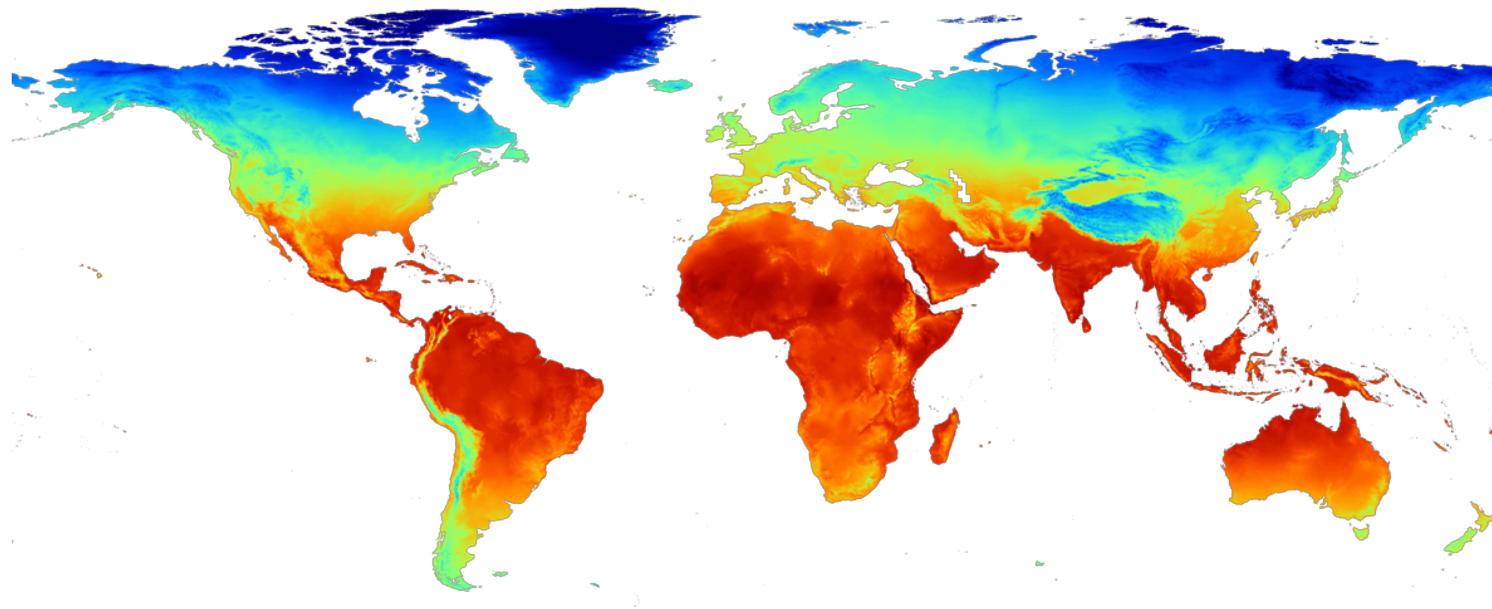


**Is it the same temperature
everywhere in the world
right now? Why or why not?**



Question: Does the latitude of a place effect its temperature?

Hypothesis: Places with high latitudes will have

_____.

Places with low latitudes will have _____.

Cut out the chart and glue it under your hypothesis.

City	Latitude	Today's High Temp. (°F)
Charlotte, NC	35°N	
Pittsburgh, PA	40°N	
Mexico City, Mexico	19°N	
Alert, Canada	83°N	
Sydney, Australia	34°S	
Toliara, Madagascar	23°S	
Esperanza, Argentina	31°S	
Quito, Ecuador	0.2°S	

Use the iPad to find today's high for the specific cities you are given. You will be given 5 min. to finish.



What time do we usually get to the high temperature for the day?

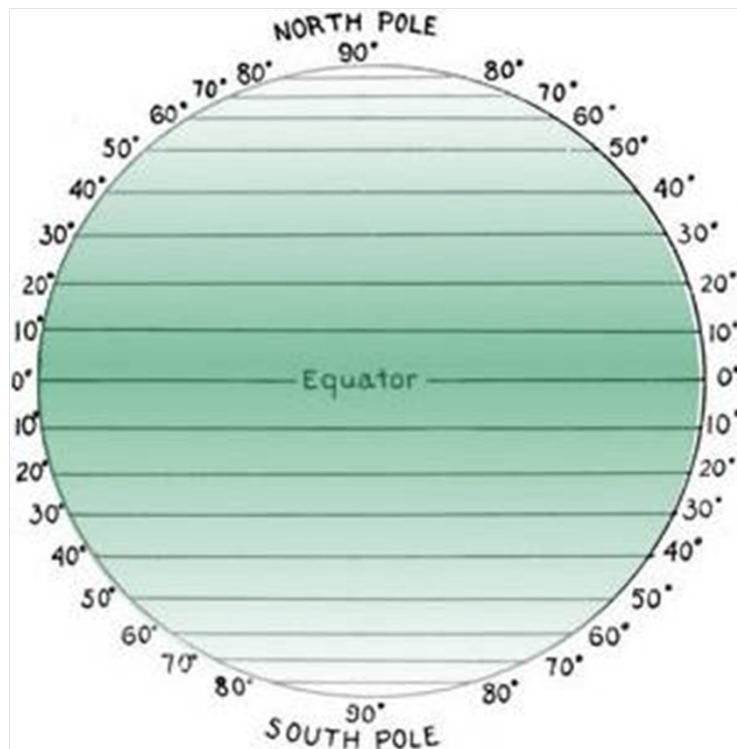
2:00 or 3:00 pm



Let's see what you found...

City	Latitude	Today's High Temp. (°F)
Charlotte, NC	35°N	
Pittsburgh, PA	40°N	
Mexico City, Mexico	19°N	
Alert, Canada	83°N	
Sydney, Australia	34°S	
Toliara, Madagascar	23°S	
Esperanza, Argentina	31°S	
Quito, Ecuador	0.2°S	

Now under your data table, list the cities in order from the most Northern latitude (90°N) to the most Southern latitude (90°S).



Charlotte, NC at 35°N high is _____

Pittsburgh, PA at 40°N high is _____

Mexico City, Mexico at 19°N high is _____

Alert, Canada at 83°N high is _____

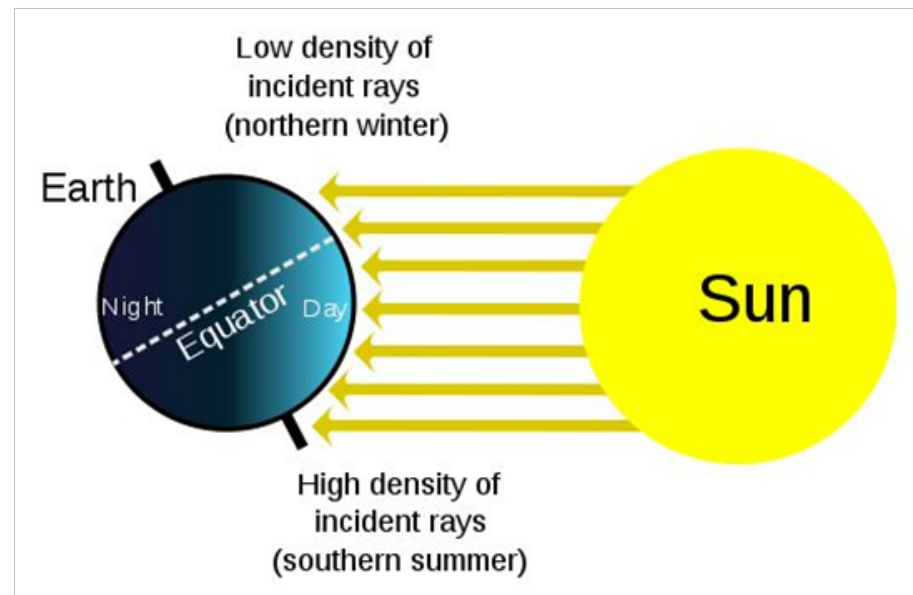
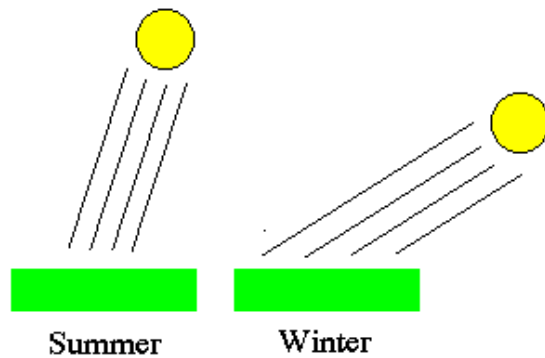
Sydney, Australia at 34°S high is _____

Toliara, Madagascar at 23°S high is _____

Esperanza, Argentina at 31°S high is _____

Quito, Ecuador at 0.2°S high is _____

Conclusion: According to the data, does latitude have an effect on temperature? Was your hypothesis correct? Explain the relationship between a place's latitude and its temperature.



Results: Different latitudes have different temperatures and seasons due to the angle of the sun's rays.

