NAME:	•

Temperature/Precipitation Biome Activity

<u>Purpose:</u> To construct a graph showing characteristics of various biomes using temperatures and precipitation data from locations around the world.

Materials: Pencil, Precipitation & Temperature data sheet

Procedure:

 Use the temperature and precipitation information from the data sheet to plot points on the graph. Each point should be labeled with the biome description abbreviation.

TF=tropical rain forest

CF=coniferous forest

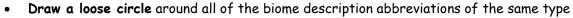
DF=deciduous forest

G=grasslands

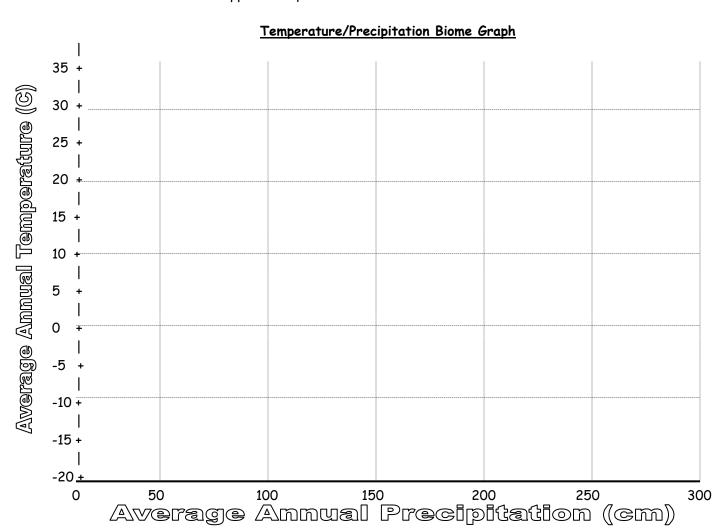
T=tundra

D=desert

S=savanna



- Label each enclosure with its correct name
- Answer the application questions





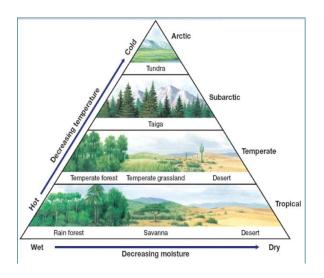
Application Questions:

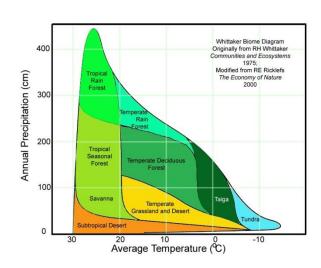
1. Which of the biomes has the broadest set of characteristics? ______How do you know?

- 2. What seems to be the major difference between a deciduous forest and a coniferous forest?
- 3. What makes it possible for a country (the US for example) to have more than one type of biome within its borders?
- 4. The lower right hand side of your graph seems to be void of biomes. What reason for this occurrence can you give? Explain.
- 5. Prickly Pete wants to start a cactus grove in Oregon, where the average temperature is 10C and the average precipitation in 150cm. Would you be willing to invest in this venture? ______Why?

What type of plant would be more suited to this location?_____

6. What might happen to a coniferous forest and a deciduous forest which reside next to each other on a mountain slope if the average temperature in that locale were to rise 10 degrees C?





- 7. What does figure A describe happens to vegetation as precipitation decreases?
- 8. Using figure B describe the relationship of precipitation and temperature.

Precipitation & Temperature data sheet

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Match the correct map and climograph to each biome in the chart below. CHECK YOUR ANSWERS WITH KEY. Once these are correct, describe the temperature and precipitation trends as shown in the climograph.

BIOME	MAP #	GRAPH	TEMPERATURE	PRECIPITATION
CHAPARRAL				
DESERT				
GRASSLAND				
SAVANNA				
TAIGA				
TEMPERATE RAINFOREST				
TEMPERATE SEASONAL				
TROPICAL RAINFOREST				
TUNDRA				

Go to the following Interactive Biome & Climograph Matching Activity. The name of the biome is BELOW the graphs. https://earthobservatory.nasa.gov/biome/graphmatch advanced.php

1.	Tokyo, Japan is a	biome.	
2.	Lahti, Finland is a	biome.	
3.	Manaue, Brazil is a	biome.	
4.	Nome, Alaska is a	biome.	
5.	Cairo, Egypt is a	biome.	
6.	Christchurch, New Zealand is a		biome.
7.	Austin, Texas is a	biome.	

Go to the following interactive site and investigate the three biomes shown via the 360° camera experience. Describe what you see in each. https://askabiologist.asu.edu/explore/Virtual-360-Biomes

DESERT	TROPICAL RAINFOREST	TEMPERATE FOREST