Map Basics							
Geolo	gy			IV	lr. Traeger		
Name: Partner	ros Name:	Period: _	Da	nte:			
Purpos The pu longitud	rpose of this activity is to be	come acquainted v	with the basic c	oncepts of maps, name	ely latitude and		
Materia •	<u>als</u> %Blace Mat+map of the world	<ul> <li>Chapter textbook</li> </ul>		Metric Rule	er & Pencil		
Answei	Map Basics The questions that follow. What is a map?						
2.	Are maps as accurate as a	globe? Why or wh	ny not?				
3.	<ol> <li>Draw the four cardinal directions below. Hint: Never Eat Soggy Waffles. Also give compass numbers in degrees.</li> </ol>						
4	Discuss the adventages are		f the 2 main to				
4.	Discuss the advantages an <b>Projection Type</b>	disadvantages d <b>Advan</b>		Disadvan			
Mercat	or Projection		g. :		300		
Gnomo	onic Projection						
Polyco	nic Projection						
5. What is a hemisphere?			If you look at a globe, how many hemispheres are there on the Earth?				
6.	In mapping, what is a degree? How many kilometers are equal to a degree?	How many minut	es in a degree?	How many seconds	s in a minute?		

	Map Basics	
Geology	-	Mr. Traeger
7. What is latitude?	What axis would you use to measure latitude if you were in math class? x or y?	How many degrees of latitude are there on the Earth north or south of the equator?
8. What is longitude?	What axis would you use to measure longitude if you were in math class? x or y?	How many degrees of longitude are there on the Earth east or west of the prime meridian?
9. Where is the equator?	What is the latitude at the equator?	What is the longitude at the equator? Careful here: tricky question
10. Where is the prime meridian?	What is the latitude at the prime meridian? Careful here: tricky question	What is the longitude at the prime meridian?

## Part B: Finding Yourself Using Latitude and Longitude Coordinates

Use the % lace mat+map on your desk to find yourself. Fill in the blanks as necessary.

City or Place	Latitude (° North or South)	Longitude (° East or West)
1.	34° North	118° West
2. Anchorage, Alaska		
3. Auckland, New Zealand		
4.	30° North	90° West
5.	90° South	60° East
6.	90° North	60° West
7. Seoul, South Korea		
8. Honolulu, Hawaii		
9.	32° South	150° East
10. London, England		
11.	0° North	80° West

<sup>12.</sup> Imagine it is the 18<sup>th</sup> century and you are trying to find your position (latitude and longitude) while lost at sea. Write a short essay (on a separate sheet of paper) describing how you might find your position for both latitude <u>and</u> longitude. All you have available is a compass, a sextant (an instrument used to measure the angle of the sun and stars), and a clock. NO GPS in these days! Divide this question up by tackling the problem of latitude first. Then, do longitude.