Map Basics										
Geolo	gy				Mr. Traeger					
Name:Partneros Name:		Period: _	D	ate:						
Purpos The pu longitue	rpose of this activity is to be	come acquainted v	with the basic	concepts of maps,	namely latitude and					
<u>Materia</u> •	<u>als</u> Google Earth®	 Chapter textbook 		• Metric	Ruler & Pencil					
Answe	: Map Basics r the questions that follow. What is a map?									
2.	2. Are maps as accurate as a globe? Why or why not?									
3.	 Draw the four cardinal directions below. Hint: Never Eat Soggy Waffles. Also give compass numbers in degrees. 									
4.	Discuss the advantages ar	nd disadvantages o	of the 3 main to	ones of man project	tions					
	Projection Type	Advan			dvantages					
Mercat	or Projection									
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 se	conds in a minute?					

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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?								
O. Whatia la situate	T William and the second of									
8. What is longitude?	What axis would you use to measure longitude if you were in math class? <i>x</i> or <i>y</i> ?	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?								

<u>Part B: Finding Yourself Using Latitude and Longitude Coordinates</u>
Use Google Earth® to find the following locations/coordinates. Fill in the blanks as necessary.

Place Name/City	Latitude (+ = ° North/ - = ° South)			Longitude + = ° East/ - = ° West)		
	<u>Degrees</u>	<u>Minutes</u>	Seconds	<u>Degrees</u>	<u>Minutes</u>	<u>Seconds</u>
1.	+ 34	11	34.96	- 118	10	42.38
The Louvre Museum/ Paris, France						
3.	+ 35	21	45.08	+ 138	43	49.91
4.	-33	51	25.23	+ 151	12	54.75
5.	+ 40	41	21.68	- 74	02	45.54
6. Half Dome, Yosemite NP, CA, USA						
7.	+29	58	44.22	+31	08	04.51
8. Galapagos Islands, Ecuador						
9. Kilauea Crater, Hawaii, USA						
10.	+51	28	55.88	0	00	00.00
11. South Pole						

^{12.} You walk 30 Km due south, 30 Km due east, and 30 Km due north. You find that you arrive at the same place where you started from. Where are you? (1° of latitude = 111 Km = 69 miles)