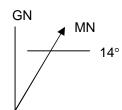
Topographic Map Basics							
Geology	городгарп	ic wap basics	Mr. Traeger				
Name:Partnercs Name:		l: Date	:				
Purpose The purpose of this activity is to be	come acquainte	ed with the basic con	cepts of topographic maps.				
 Materials pencil Key to Topographic Map Symbols (page 697 in your textbook) Part A: Introduction to Topograp 	Map • Chapte textbook	ena Topographic er 3 in your ok.	Metric Ruler•				
Use the Pasadena Topographic Ma		e following.					
	 Find your house on the map. What is the approximate latitude and longitude of your house? 		on of your house in feet?				
map. What is the approxim	Find La Cañada High School on the map. What is the approximate latitude and longitude of the school?		What is the elevation of the school in feet?				
3. What is topography?	3. What is topography?		I want to fly my airplane over La Cañada and wave hello to you. Tell me the elevation of the highest topography in feet so that I dond crash my plane?				
What is the definition of scale?	What is the scale on this map?		What is bigger? The scale on this map or the scale on the classroom globe?				
5. What are all the %quiggly+brown lines on the map?	If the brown lines are close together, what does this mean?		If the brown lines are far apart, what does this mean?				

Topographic Map Basics Geology Mr. Traeger							
6.	<u> </u>		What is the name of the largest blue line on the map?				
7.	7. What is the contour interval for this map?		What does contour interval mean?				
/.	what is the contour interve	arior triis map:	What does come	our intervarineari:			
8.	In what direction does the 210 freeway run?	In what direction freeway run?	does the 134	In what direction does the 2 freeway run?			
9.	What <i>type</i> of highway is the 210?	What <i>type</i> of highway is the 134?		What <i>type</i> of highway is the 2?			
10.	What does the green shad	ling on the map inc	dicate?				
11.	What is the length of Footl of the map in La Crescent			ve near the High School to the end lometers.			
12. What is the average slope (change in y/change in x) in feet per mile from the Jet Propulsion Laboratory to the Rose Bowl? Show your work!							
13. What is the average slope from Gould Mesa Campground to the Jet Propulsion Laboratory in feet per mile? Show your work!							
14.	. Which of the slopes in nur	nbers 12 and 13 a	re steeper? Do you	ur contour lines verify this?			

15. Find Rosemont Ave. in La Crescenta. Draw a vertical profile along Rosemont Ave. from Rockdell St. to La Crescenta Ave. How does the slope change from the top of the hill to the bottom of the hill? Calculate the average slope in feet per mile.

Part B: Map and Compass Skills

- 1. What is a compass and how does it work?
- 2. What does this symbol on the map mean?



3. What is the difference between True North and Magnetic North?

	Topographic Map Basics	
Geology		Mr. Traeger

4. How would you use a compass to orient your map to True North?

5. What <u>point</u> in the classroom is True North? What <u>point</u> in the classroom is Magnetic North? Name the features in the room where these points are.

6. How would you use a map and compass to find yourself if you are lost in the forest?

Bonus Question

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