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			7	Topogra	aph	ic I	Map Basics	5	
Earth :	Science								Mr. Traeger
Name: Partnercs Name:				Period 	:	Date:	:		
Purpos The pur		nis activity	is to be	come acqu	uainte	d wi	th the basic con	cepts of topograpl	nic maps.
MaterialsPencil and Vis-à-vis pen			 Pasadena Topographic Metric Ruler Map 			tuler			
 Key to Topographic Map Symbols in front cover of your textbook 			 Chapter 3 Section 3 in your textbook. Navigation Compass 						
				hic Maps ap to answ	er the	foll	owing.		
 Find your house on the ma approximate latitude and lo house? 				ongitude of your				evation of your ho ne closest to your l	
	<u>Latitude</u>			Longitude	<u>.</u>				
Degrees	Minutes	Seconds	Degrees	Minutes	Seco	onds			
	•			•	•				
Find La Cañada High Scho What is the approximate la longitude of the school?			kimate la				evation of the scho e closest to the sc		
	<u>Latitude</u>			<u>Longitude</u>					
Degrees	Minutes	Seconds	Degrees	Minutes	Seco	nds			
 If Antarctica and all the wo sheets melt, sea level may feet. Will La Cañada be aff why not? 			rise by 1,000 map ected? Why or the h		p and wave hell highest topogra	plane over the enti to to you. Tell me taphy on the map (ne into a mountain	the elevation of in feet) so that I		
4.	What is t	ha definiti	on of	Mhat is th	20.00	مام د	on this man?	What is bigger?	The scale on this
4. What is the definition of scale?			What is the scale on t			m una map :	map or the scale classroom globe	e on the e?	
								Scale on Map	Scale on a Globe 1: 41,800,000
								Which one is mather	matically bigger?
5. What are all the %quiggly+brown lines on the map called?			If the brown lines are close together, what does this me				If the brown lines what does this m	-	
	ше шар	caneu :							

Topographic Map Basics				
Earth	Science	Mr. Traeger		
6.	What are the blue lines or circles on the map?	What is the name of the largest blue line on the map?		
7.	What is the contour interval for this map?	What does contour interval mean?		

Answers for #8 should be in cardinal directions of N, S, E, W, NW, NE, SW, and SE.

8. In what direction does the 210 freeway run?	In what direction does the 134 freeway run?	In what direction does the 2 freeway run?

Answers for #9 should be State, Interstate, US, etc. This tells you who pays to maintain the highway.

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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 shading on the map indicate?

11. Look for Fern Canyon Creek, a tributary of the Arroyo Seco. What is the approximate direction that the stream is flowing (N, S, E, W, NE, NW, SE, or SW)? Keep in mind that contour lines crossing a stream or river always make the shape of an arrow that points upstream.

12. What is the length of Foothill Blvd. from the corner of Oak Grove near the High School to the end of the map in La Crescenta? State your answer in miles and kilometers. Show work!

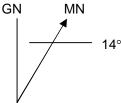
Work and Answer in Miles	Work and Answer in Kilometers

- 13. Find an area on the map where the terrain is the steepest. Tell me exactly where this place is.
- 14. Find an area on the map where the terrain is not steep. Tell me exactly where this place is.

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? What is the difference between true and magnetic north?

 GN MN



3. How would you use a compass to orient your map to True North? Do it and tell me what place in the room is true north.

Conclusion: Tell me in full sentences what the purpose of topographic maps is.