Topographic Map Basics				
Earth Science		Mr. Traeger		
Name: Partnerœ Name:	Period:	Date:		
<u>Purpose</u> The purpose of this activity is to be	ecome acquainted with the ba	asic concepts of topographic maps.		
<u>Materials</u>				

pencil ٠

- Pasadena Topographic • Мар
- Metric Ruler •

- Key to Topographic Map Symbols in front cover of your textbook ٠
- Chapter 3 Section 3 in • your textbook.

Part A: Introduction to Topographic Maps Use the Pasadena Topographic Map to answer the following.

<ol> <li>Find your house on the map. What is the approximate latitude and longitude of your house?</li> </ol>					What is the elevation of your house in feet? Use the contour line closest to your house to find this.	
Latitude Longitude						
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	

	What is t	nd La Cañada High School on the map. hat is the approximate latitude and ngitude of the school?			What is the elevation of the school in feet? Use the contour line closest to the school to find this.		
	<u>Latitude</u>			<u>Longitude</u>			
Degrees	Minutes	Seconds	Degrees	Minutes	Seco	nds	
			all the world				ant to fly my airplane over La Cañada and wave
		he	lo to you. Tell me the elevation of the highest				
		top	ography on the map (in feet) so that I dond crash				
	why not?	)			-	my plane into a mountain?	
							·

4. What is the definition of scale?	What is the scale on this map?	What is bigger? map or the scale classroom globe	on the
		Scale on Map	Scale on a Globe
		Which one is mathen	natically bigger?

<ol> <li>What are all the %quiggly+brown lines on the map called?</li> </ol>	If the brown lines are close together, what does this mean?	If the brown lines are far apart, what does this mean?

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What is the name of the largest blue line on the map?					
What does contour interval mean?					

8	In what direction does	In what direction does the 134	In what direction does the 2

<ol><li>In what direction does</li></ol>	In what direction does the 134	In what direction does the 2
the 210 freeway run?	freeway run?	freeway run?

<ol><li>What type of highway is the 210?</li></ol>	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. 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.

Work and Answer in Miles	Work and Answer in Kilometers				
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12. Find an area on the map where the terrain is the steepest. Tell me exactly where this place is.

13. Find an area on the map where the terrain is the shallowest. 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

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1	- 14°

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 <u>full sentences</u> what the purpose of topographic maps is.