Arroyo Seco Field Trip Scavenger Hunt

CCCICQY	Geol	logy
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Mr. Traeger

Name: _____ Period: ____ Date: _____ Answer the following questions concerning today¢ field trip. You need to *listen* to me carefully to get the right answers.

- 1. What kinds of rocks are mostly found in the local area? Are they igneous intrusive, igneous extrusive, sedimentary, and/or metamorphic?
- 2. How can you tell the difference between all of the rocks in the local area? What would you look for?
- 3. How were the San Gabriel Mountains formed?
- 4. Why are there some areas of the Arroyo where the trees are green, even though the Arroyo itself is dry? Keep in mind that plants need water to stay green.
- 5. What is Devilos Gate Dam used for?
- 6. What will be the *first* thing to be carried away in a large flood? Silt, sand, gravel, rocks, or boulders? Why?
- 7. What will be the *last* thing to be carried away in a large flood? Silt, sand, gravel, rocks, or boulders? Why?
- 8. Did you see any signs that flooding had occurred in the Arroyo in the past? How do you know?
- 9. Describe the sedimentary column that we observed. Were the oldest rocks on the bottom or on the top?
- 10. How do large rocks get broken down into smaller rocks?
- 11. What causes some of the rocks to become rounded in shape?
- 12. What are the large rectangular pits (spreading grounds) used for?
- 13. Where does Southern California get a lot of its fresh water from?
- 14. What is an earthquake fault?
- 15. What is the name of the earthquake fault that we saw and where is it?

Conclusion (Homework): Summarize the formation and geology of the San Gabriel Mountains in a short essay of no less than ½ page. Attach the essay to this document when it is finished.

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Geology

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Data Collection Chart Use your GPS receiver to fill in this chart as we go along. You will enter this data into the GIS and make a geologic map of the Arroyo Seco.

Obs. #	Description of rock types and/or land features	Northing	Easting	Latitude	Longitude	Elevation (feet)
ex)	Igneous Granite mixed with Metamorphic Gneiss	3784210	391358	34.19324	-118.17909	1097
1.						
2.						
3.						
4.						
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10.						
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12.						
13.						
14.						
15.						