

## **Arroyo Seco Field Trip Alternate Assignment**

**Mr. Traeger**

Please do a 2 page minimum research report (1.5 spacing and 1 inch margins) on the following questions. You must cite your sources. Use the correct MLA format using Noodle Tools. See Mrs. Bozzani for information about how to use Noodle Tools if you have never used it before.

Research and answer the following questions about the geology of the local area in essay form. How were the San Gabriel Mountains formed? What kinds of rocks are found in the San Gabriels? What are the ages of rock in the San Gabriels? What contributes to weathering and erosion of the San Gabriels? How has past flooding and mudslides in the San Gabriel range been dealt with by local agencies? What is the current plan of action for all of the debris that is stored behind Devil's Gate Dam? What is an aquifer? How was the Arroyo Seco aquifer contaminated by rocket fuel through rocket testing in the Arroyo Seco in the past? What and where is the Sierra Madre earthquake fault and how does it present potential risk to local residents? If you cannot find specific information on the geology of the San Gabriels, look up the geology of Southern California. Pay specific attention to Northern Los Angeles County. Please see Mrs. Bozzani if you need help finding information. Chapter 6 of your textbook will be very helpful for interpreting the types of rocks that are in our area.

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