**Overview/Background:**

Your friend walks in and says, “All of California has more than enough fresh water for all those who use it.” Use the writing prompt below to explain if your friend is correct or not.

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| **Writing Task:**  What have local and state governments done to distribute freshwater to areas of California based on supply and demand?  Complete Parts 1 and 2 of the “CA Freshwater Puzzle Activity” and read p. CA 13-p. CA 19 in the Prentice Hall Earth Science book.  (The California chapter is located in between p. 390 and p.392 )  The city of Los Angeles has 16 million people and the city is completely surrounded by either mountains or the Pacific Ocean. In the 1940’s, the California state government and the federal government worked together to build several California water projects. Explain why these projects needed to be built. Use and define ALL vocabulary in the box below and here are questions that you must answer with your written response:  -What are the origins of CA’s fresh water?  -Why is water so important to people in CA? (How is fresh water used around CA?)  -Explain what natural barriers or landforms make it difficult for water to flow to southern CA.  **Support your discussion with evidence from the text.** |

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| **Vocabulary**  aqueducts, reservoirs, pipelines, pump stations, precipitation, distribute, groundwater, irrigation, domestic water use, surface water, desalination |

**Notes and Outline Section for your Response**

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| **Purpose:**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_\_\_\_ governments have done several things to improve how freshwater is \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to areas of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ based on supply and need.  **Evidence:**  **Sources**  The main sources of CA’s fresh water are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  Surface water includes all water found in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  **Uses of fresh water**  Freshwater has many uses around \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_including \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  Water is used in agriculture in several different ways, such as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  **Problems and Solutions**  In natural environments \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ normally flows \_\_\_\_\_\_\_\_ hill.  In the state of\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ there are many \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ranges which are natural landforms. These \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_make it \_\_\_\_\_\_\_\_\_\_\_\_\_ for water to flow to parts of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_California including the city of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  In order to move water uphill towards the city of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, state and local\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, have built many systems to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ water to the city of LA. These systems also move water that is used for \_\_\_\_\_\_\_\_\_\_\_\_\_\_ on farms.  This human made water distribution system is made of many \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_which both transport water, \_\_\_\_\_\_\_\_\_\_\_\_\_ which store water and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which moves water over the tops of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  Another possible source of water for the city of LA is the process of\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which involves removing salt from \_\_\_\_\_\_\_\_\_\_\_ water. Although this is currently used in some cities, governments are still exploring how to best use this process since it can use a large amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |