**Unit 2 Hydrology Review**

Use your

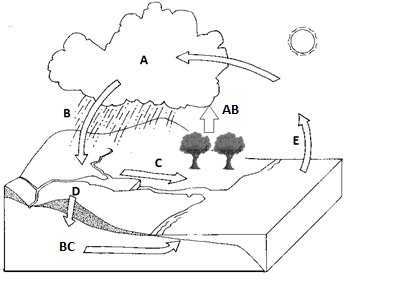
1. What percentage of Earth’s water is freshwater? Of this percentage 68.7% of all fresh water is locked up in glaciers and polar ice caps. Explain some limitations to using this frozen water as a source of drinking water on Earth.

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1. Match the following terminology to the water cycle diagram below.

(Transpiration, Groundwater, Evaporation, Runoff, Condensation, Precipitation, Infiltration)



1. Use the terms from the diagram above to explain why Earth is considered a “closed system”.

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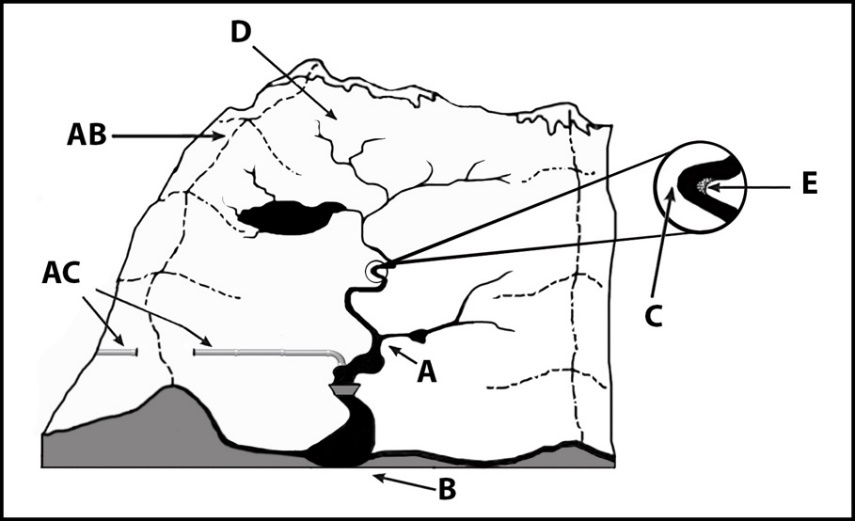
1. Define:
   1. Porosity \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Permeability \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Water table \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. Artesian well \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   5. Spring \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the difference between a spring and an artesian well?

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**Running Water**

1. What stream variable is most important for eroding a channel and causing a stream to meander?
2. What is the discharge of a stream that is 5 meters wide, 3 meters deep, and flowing at 12 m/s?
3. Explain the differences between clay, silt, sand, and base load.

Study the two diagrams and be able to label each.



\_\_\_\_ Confluence (tributary meets main river)

\_\_\_\_ Mouth (where an estuary can form)

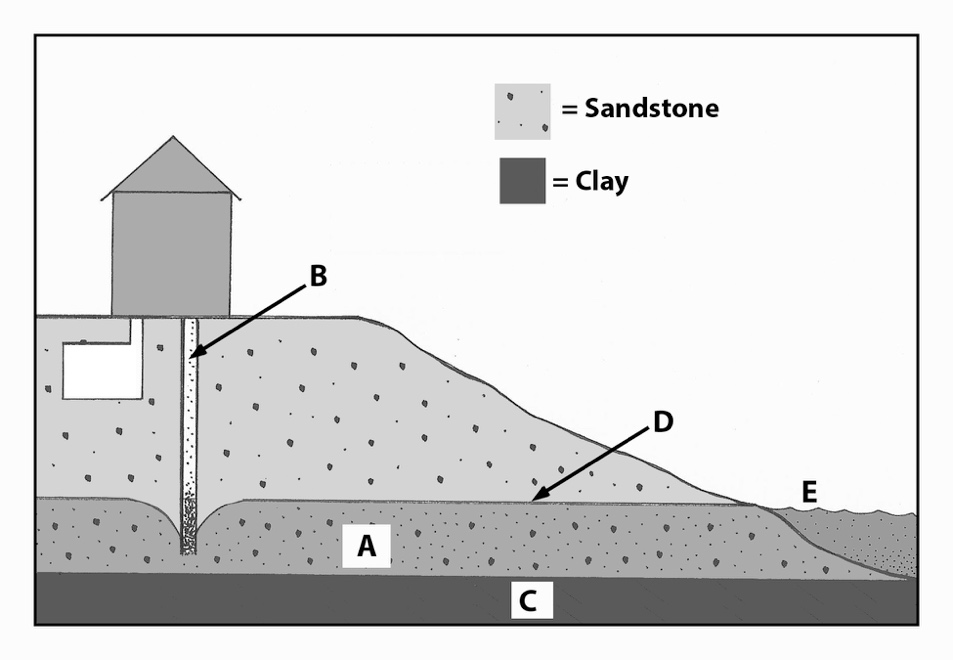
\_\_\_\_ Cut bank (water erodes riverbank)

\_\_\_\_ Headwaters

\_\_\_\_ Point bar (slower water deposits sand and gravel)

\_\_\_\_ Trans-mountain diversion (water movement)

\_\_\_\_ Divide (Geographic area dividing two watersheds)



\_\_ Aquifer

\_\_ Bore well

\_\_ Impermeable rock or clay

\_\_ Water table

\_\_ Spring