

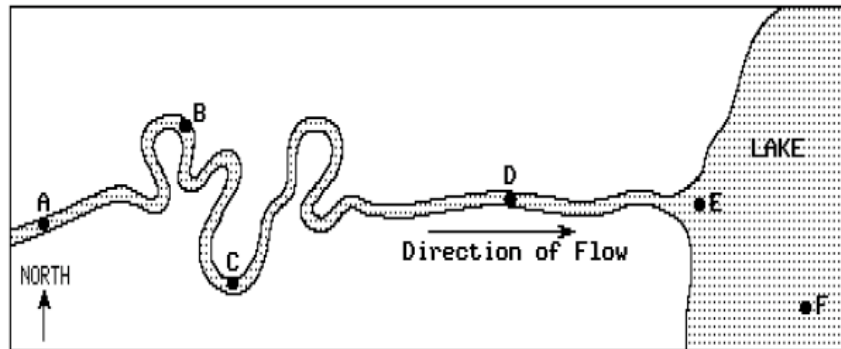
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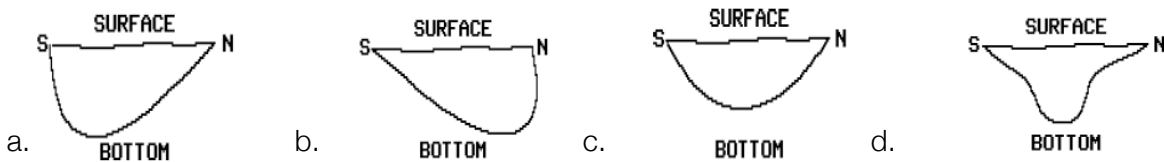
## Worksheet: Running Water

Questions 1 through 2 refer to the following:

The map below shows a stream flowing into a lake. Letters A through F represent locations in the stream and lake.



- The velocity of this stream at point B depends on the stream's
  - discharge, only
  - slope and discharge, only
  - slope, discharge, and channel shape
  - slope, only
- Which diagram best represents the cross section of the stream at location C.? [Note that letters N and S represent the north and south sides of the stream.]



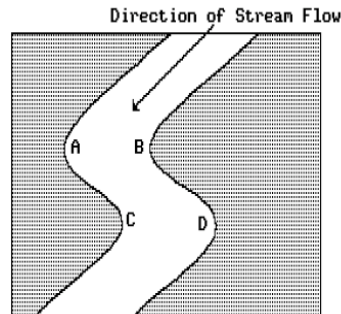
- Stream A has a steeper slope than stream B. However, the average water velocity of stream B is greater than that of stream A. Which is the most reasonable explanation for this?
  - Stream B has a curved stream bed.
  - Stream B has more friction to overcome along its banks.
  - Stream B has a greater volume of water.
  - Stream B has a higher average temperature.
- According to the Earth Science Reference Tables, a stream flowing at a velocity of 100 centimeters per second can transport
  - silt, sand, and pebbles, but not cobbles
  - silt, but not sand, pebbles, or cobbles
  - silt, sand, pebbles, and cobbles
  - silt and sand, but not pebbles or cobbles

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5. The map below represents a view of a flowing stream. The letters identify locations in the stream near the interface between land and water. At which two locations is erosion due to flowing water likely to be greatest?



- a. A and D
  - b. A and B
  - c. B and D
  - d. B and C
6. The rate at which particles are deposited by a stream is least affected by the
- a. size and shape of the particles
  - b. velocity of the stream
  - c. stream's elevation above sea level
  - d. density of the particles
7. Why do the particles carried by a river settle to the bottom as the river enters the ocean?
- a. The velocity of the river water decreases as it enters the ocean.
  - b. The kinetic energy of the particles increases as the particles enter the ocean.
  - c. The density of the ocean water is greater than the density of the river water.
  - d. The large particles have a greater surface area than the small particles.
8. A river transports material by suspension, rolling, and
- a. transpiration
  - b. solution
  - c. sublimation
  - d. evaporation
9. Stream A has a steeper slope than stream B. However, the average water velocity of stream B is greater than that of stream A. Which is the most reasonable explanation for this?
- a. Stream B has a curved stream bed.
  - b. Stream B has more friction to overcome along its banks.
  - c. Stream B has a greater volume of water.
  - d. Stream B has a higher average temperature.
10. Which erosional force acts alone to produce avalanches and landslides?
- a. sea waves
  - b. winds
  - c. running water
  - d. gravity