

Name _____ Period _____ Date _____

Earth Science: Stream Erosion Lab

PART 1 – Define the terms

Velocity –

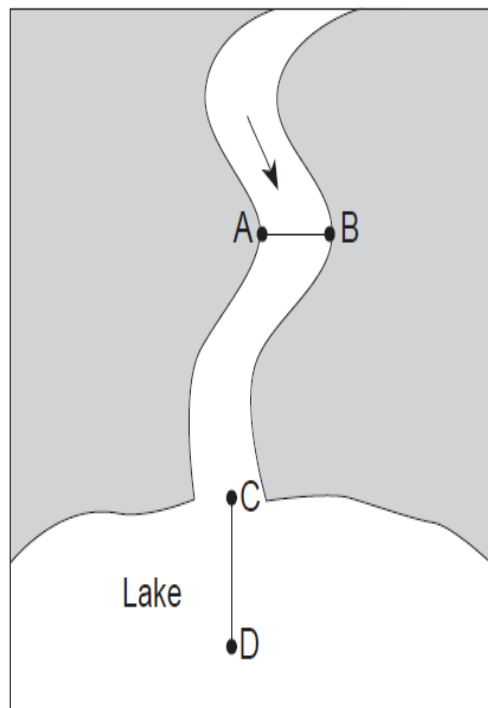
Dissolved load –

Suspended load –

Bed load –

PART 2 – Profile of a Stream

Base your answers to questions 76 through 78 on the map and the stream data table below. The map represents a stream flowing into a lake. An arrow shows the direction of streamflow. Points *A* and *B* are locations at the edge of the stream. Line *AB* is a reference line across the stream surface. Line *CD* is a reference line along the lake bottom from the mouth of the stream into the lake. The data table gives the depth of the water and distance from point *A*, in feet, along line *AB*.



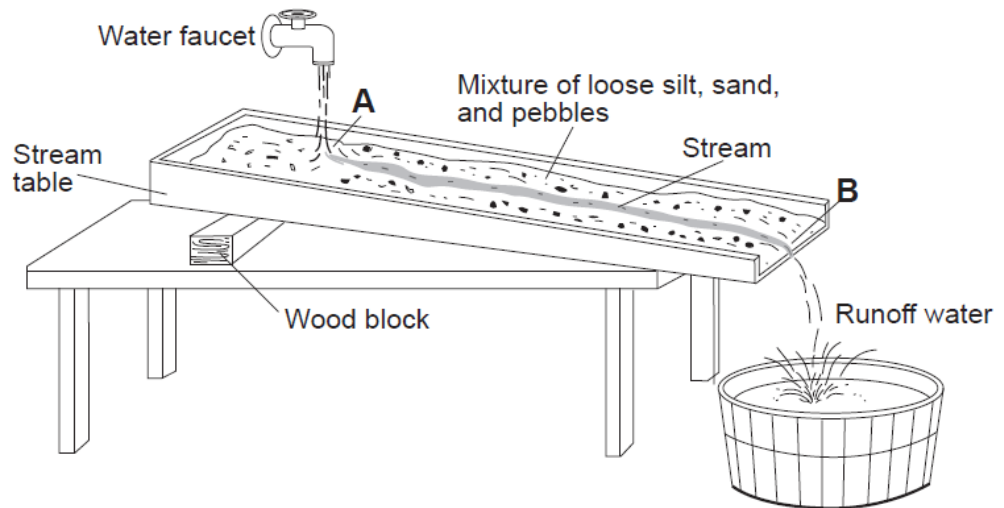
- Using the map and the data table, explain why the depth of water 20 feet from point *A* is different from the depth of water 20 feet from point *B*. [1]

- The sediments being carried by the stream include clay, pebbles, sand, and silt. List these sediments in the most likely order of deposition from point *C* to point *D*. [1]

PART 3 – Applying your knowledge

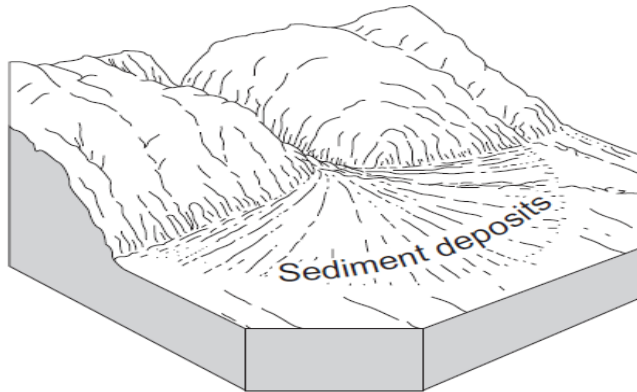
Answer the following questions (1 point each)

- The model shown below illustrates stream erosion between locations *A* and *B* in the stream.



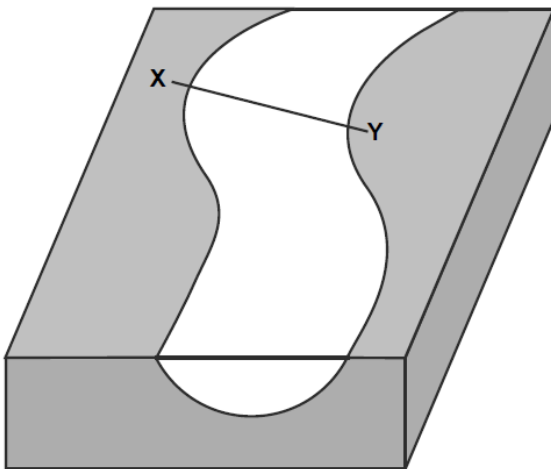
- Placing a second block under location *A* will cause the stream's velocity to
- decrease and the rate of erosion to decrease
 - decrease and the rate of erosion to increase
 - increase and the rate of erosion to decrease
 - increase and the rate of erosion to increase

4. The landscape diagram below shows a fan-shaped pattern of sediment deposits.

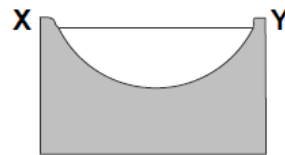


The fan-shaped pattern of these sediments is most likely the result of deposition by

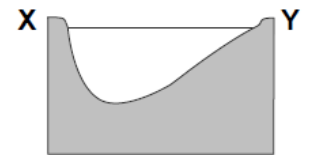
- | | |
|-----------------|----------------------|
| (1) glacial ice | (3) running water |
| (2) ocean waves | (4) prevailing winds |
5. The block diagram below shows part of a meandering stream. Line *XY* shows the location of a stream cross section.



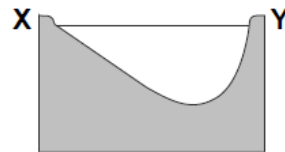
Which cross section best represents the shape of the stream channel at line *XY*?



(1)



(3)



(2)



(4)