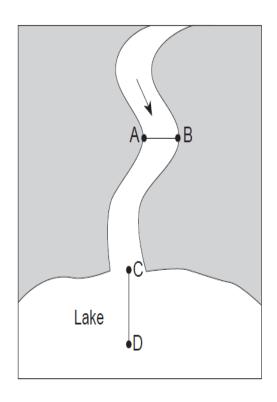
Name	Period	Date
	Earth Science: Stream Erosion	Lab
PART 1 – Define the terms		
Velocity –		
Dissolved load –		
Suspended load –		

## PART 2 - Profile of a Stream

Bed load -

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.

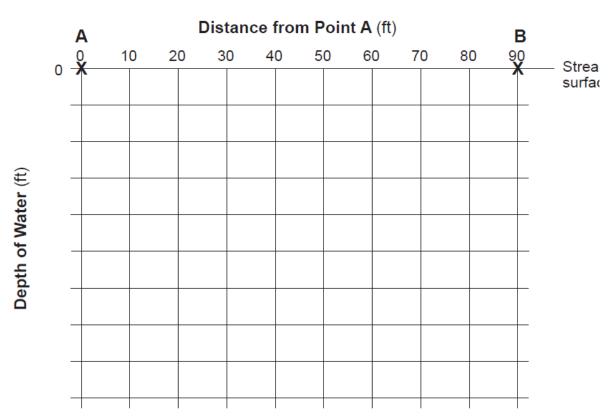


	Point A	Stream Data Table						Point B		
Distance from Point A (ft)	0	10	20	30	40	50	60	70	80	90
Depth of Water (ft)	0	2	4	7	11	13	16	17	10	0

On the grid *in your answer booklet*, construct a profile of the depth of water below line *AB*, following the directions below.

- Mark an appropriate numerical scale showing equal intervals on the axis labeled "Depth of Water." The zero (0) on the depth of water axis represents the stream surface. [1]
- Using the data table, plot with an **X** the depth of water at each distance from point A to point B. Connect the **X**s with a smooth, curved line. Points A and B have already been plotted. [1]

## **Stream Profile**



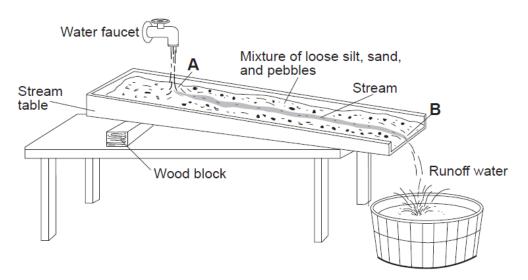
1.	Using the map and the data table, explain why the depth of water 20 feet from
	point A is different from the depth of water 20 feet from point B. [1]

2. 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)

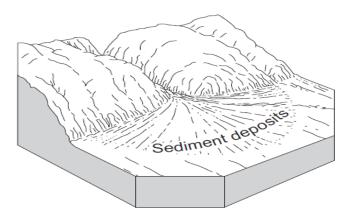
3. The model shown below illustrates stream erosion between locations A and B in the stream.



Placing a second block under location A will cause the stream's velocity to

- (1) decrease and the rate of erosion to decrease
- (2) decrease and the rate of erosion to increase
- (3) increase and the rate of erosion to decrease
- (4) 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?

