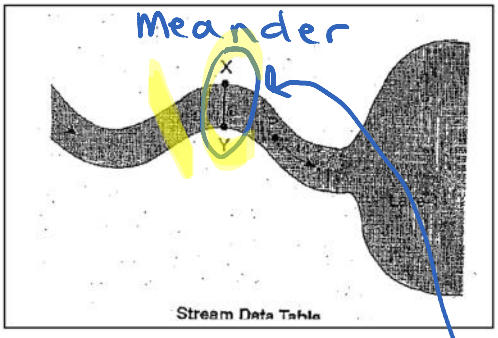
EARTH SCIENCE
Fox Lane High school

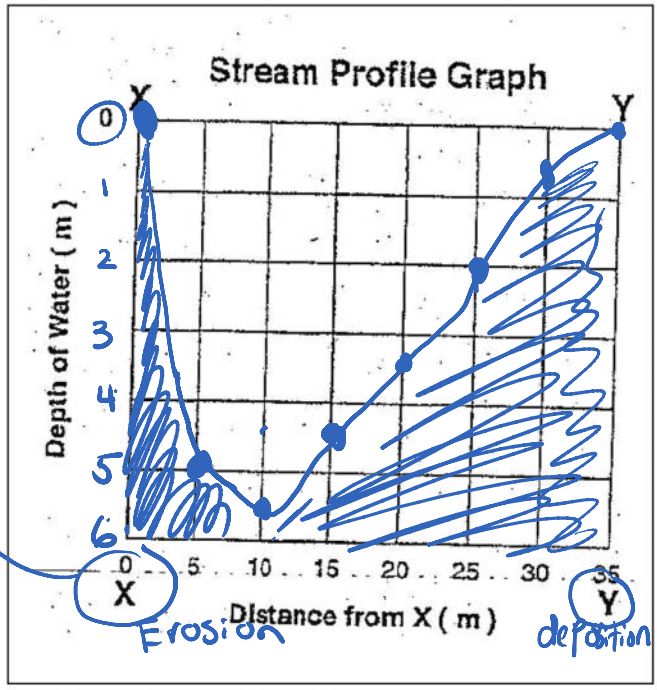
Name:_____Date: _____

In this homework, you will be drawing a profile of the stream at X and Y. Plot the graph using the data table. Read the questions carefully and check off each question when you are done!

PLEASE COMPLETE THIS HOMEWORK **IN PENCIL ONLY**

The diagram represents a stream flowing into a lake. Arrows show the direction of flow. Point P is a location in the stream. Line XY is a reference line across the stream. Points X and Y are locations on the banks. The data table gives the depth of water in the stream along line XY.





1. Use the information in the data table to construct a profile of the depth of water. Using the grid on the right
2. On the vertical axis, mark an appropriate scale for the the depth of water. Note that the zero(0) at the top of The axis represents the water surface.
3. Plot the data for the depth of water in the stream along Line XY **and connect the points**

Questions:

1. State why the depth of water near the bank at point X is different from the depth of water near the bank at point Y. b/c one side is affected by erosion
2. At point P, the water velocity is 100cm/s. State the name of the largest sediment that can be transported by the stream at point P. pebble

	Location X							Location Y
Distance from X (meters)	0	5	10	15	20	25	30	35
Depth of Water (meters)	0	5.0	5.5	4.5	3.5	2.0	0.5	0

more than the other side

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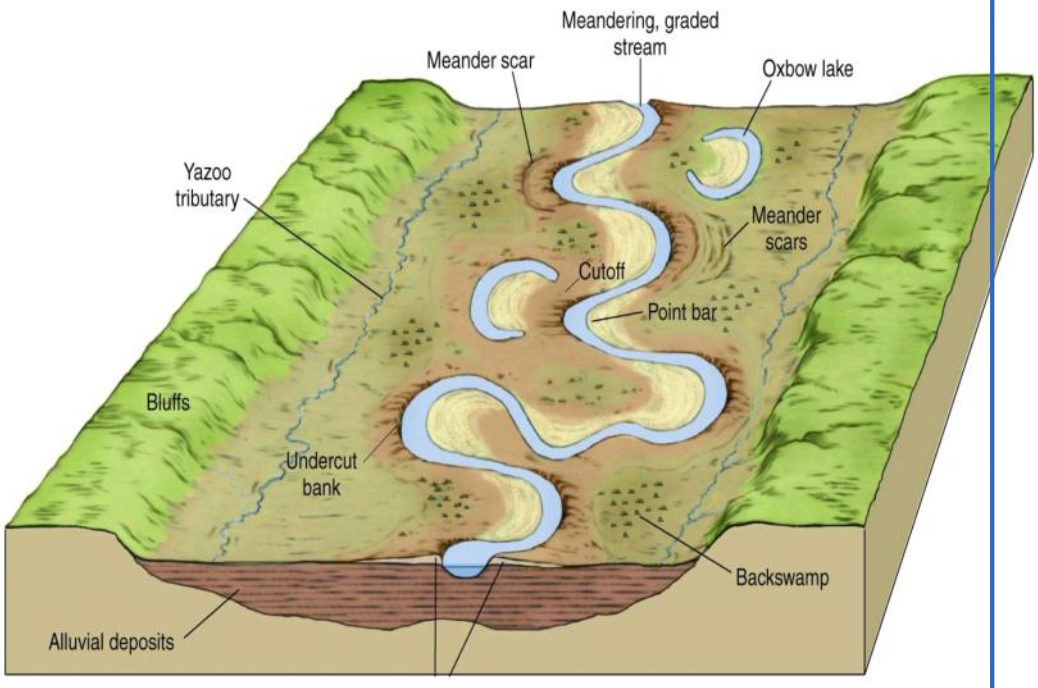

Describe how an oxbow lake forms. Include the word erosion, deposition, and velocity.