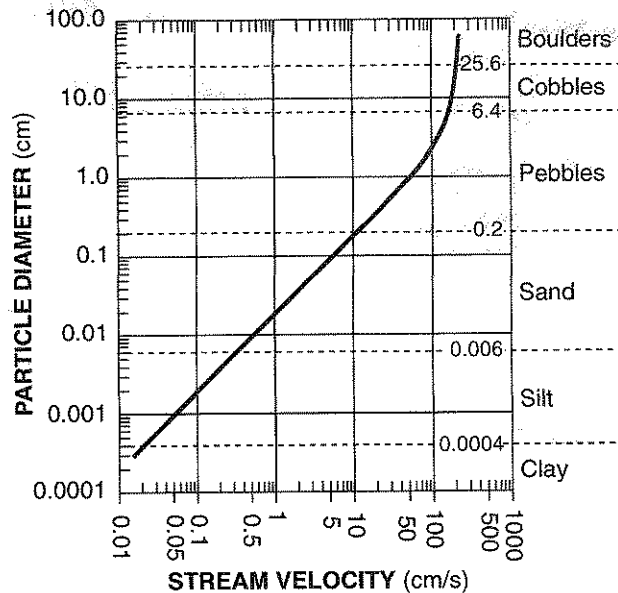





Name: _____

Period: _____

Relationship of Transported Particle Size to Water Velocity



This generalized graph shows the water velocity needed to maintain, but not start, movement. Variations occur due to differences in particle density and shape.

1. How fast does a stream have to move to carry a 1cm particle? _____
2. How fast does a stream have to move to carry the smallest cobbles? _____
3. Classify the following size particles:
 - a. .07cm _____
 - b. .005cm _____
 - c. 20.5cm _____
 - d. 4.2cm _____
 - e. .0002cm _____
 - f. 39.5cm _____
4. Classify the following particles using your Handy Dandy Earth Science Reference Tables:
 - a.  _____
 - b.  _____
 - c.  _____
5. How fast does a stream have to travel to carry particle C from question 4?

6. Determine what particles would be carried by a stream moving at the following velocities:

a. 1 cm/sec _____

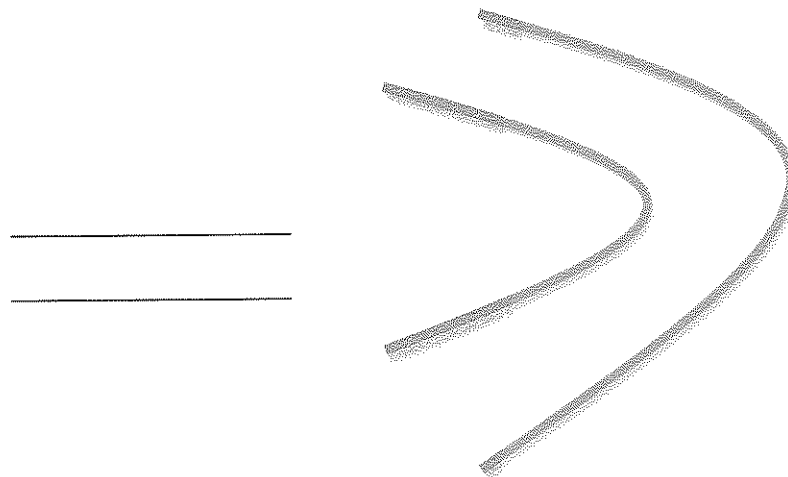
b. 10 cm/sec _____

c. 20 cm/sec _____

d. 150 cm/sec _____

e. 500 cm/sec _____

7. In the profile of the stream below label the inside bend and the outside bend of the meander. Next, tell where **erosion** would be dominant then tell where **deposition** would be dominant.



STREAM A

8. From the stream profile above, explain why erosion and deposition would be dominant where you labeled in the diagram above.
