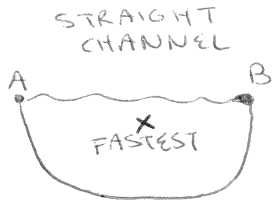
Objective: Erosional and Deposition in Meandering Rivers.



Do Now: Write the relationship for the following factors:

As Stream Discharge Increases, Velocity *INCREASES.*

As Slope Increases, Velocity *INCREASES.*

As Velocity Increases, Erosion *INCREASES.*

Notes:

Meander – Curving, Winding, rivers in gently sloping areas (flat Flood Plains land).

Why are the cars crashing on the Right Side?

- They are losing control because they are going TOO FAST.

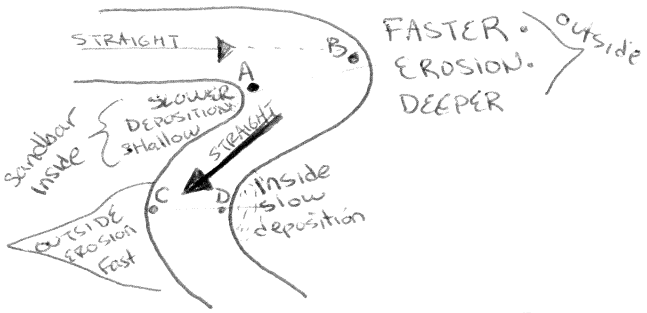
Rivers travel FASTEST in a straight line.

Draw meander and arrow in straight line. The River (like the cars) crashes into the 'wall', resulting in EROSION.

Watch this Video Clip... Notice how they pile up on the OUTSIDE CURVE (erosion-faster).

Show Waterslide with Higher sides on OUTSIDE, to prevent riders from falling out of the slide!.

Draw a **MEANDERING RIVER** Bird's Eye View

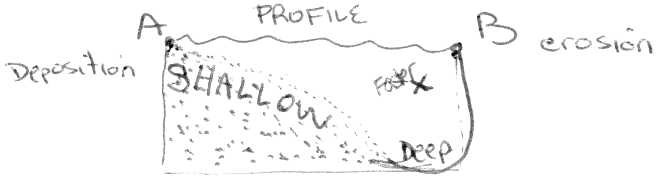


A OUTSIDE CURVE, FAST, EROSION, STEEPER, DEEPER. Draw straight arrow hitting outer wall.

B INSIDE CURVE, SLOW, DEPOSIITON, SHALLOW. Note the sand bars are on the INSIDE Curve, Slows Down, Deposits Sediments INSIDE.

If you were to take a cross-section of the curved river bed and profile the depths it would be Very Shallow on the INSIDE (Deposition) and DEEP on the OUTSIDE (Erosion).

Draw a : **Crosss-Section Along A-B**



Handouts.