

# Topic: Weathering, Erosion, and Deposition

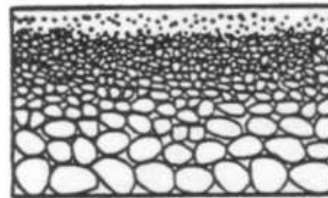
Aim: How does water sort sediments?

## Sorting Patterns -

the natural separation of sediments based on size, shape and density

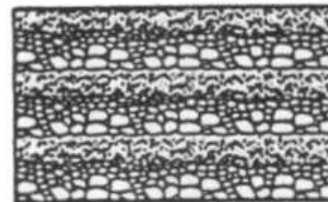
### 1. Vertical Sorting

- occurs when there is a sudden depositional event in water
- larger particles fall first, followed by smaller ones on top



### LAYERING OR GRADED BEDDING →

indicates multiple depositional events



### 2. HORIZONTAL SORTING

When a stream enters a body of still water (lake or ocean) it loses kinetic energy (slows down) dropping off bigger particles right at the mouth (end of stream). Smaller particles are carried farther into the still water. Leads to formation of a delta (triangular depositional feature at the mouth of a stream).

