

# *Earth Science*

With

Mr. Thomas



# Surface Water:

## Streams & Rivers:

- River System – A river and all of its *tributaries*.
  - Tributary – A stream that runs into another stream or river.
  - Drainage Basin / Watershed – Includes all of the land that drains into the river.
  - Divide – The high land that separates one watershed from another. (i.e. Mountains)

# Stream & River

- **Velocity** – How fast the water is flowing ⇒ determines the size of the particles being carried!!
- **Gradient** – The slope of the stream/river ⇒ determines the velocity!



# Stream & River

- **Discharge** – The amount or volume of water that passes a certain point in a given amount of time ⇒ Determined by rainfall!



# Transported Materials:

- Load: The eroded rock and soil materials that are transported downstream by a river.
- Suspension: Small particles that are carried in the water column of a river or stream.
- Bed Load: Large particles that bounce and tumble along the bottom downstream.



# Stream Erosion & Deposition:

The faster the water is moving in a river or stream, the larger the particles it can carry!

As the water slows down, it can no longer carry the larger particles and they settle out or get **deposited**.



# Deposition in a lake

*Fast Flow*

**Slow Flow**



**River**

**Ocean**

See pg. 6 in ESRT's!!!



That's it

