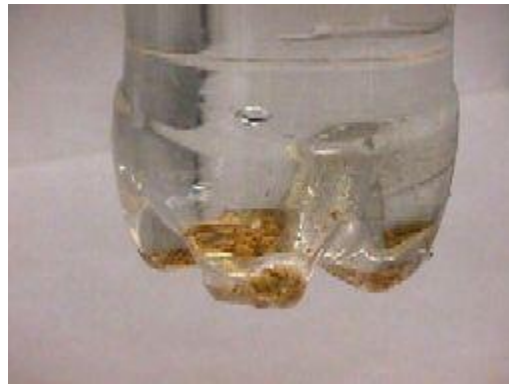


# Particle Size Demonstration

**Predict: Which one will settle the fastest: pebbles, sand or silt/clay mixture?**

1. Add small pebbles to a plastic bottle (#1) filled with water. Close the cap tightly.
2. Add clean sand to another plastic bottle (#2) filled with water. Close the cap tightly.



3. Add silt and clay to a separate bottle (#3) filled with water. Close the cap tightly.



4. Shake up the bottles and observe how long it takes for the particles to settle.



5. Observe the difference in the clarity of the water. The water is mostly clear in the bottle with the pebbles and sand.



6. Note the sediment in the water of the silt and clay bottle.



### Conclusion:

Pebbles and Sand are larger and heavier particles and settle faster.

Silt and Clay are smaller particles and take longer to settle and sometimes float.

\*Note: this is important information to know for lesson 3.