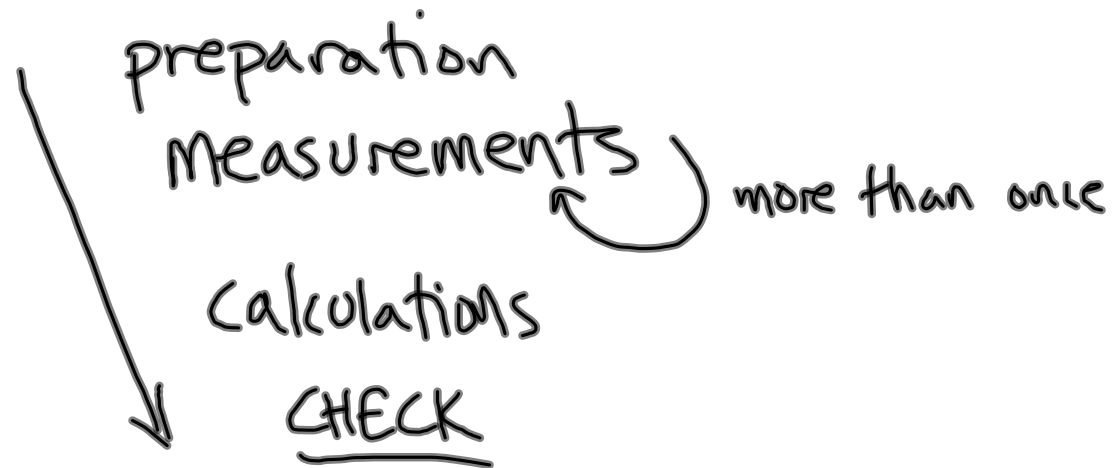


# Soil Measurements:

moisture, texture, pH, Nitrogen



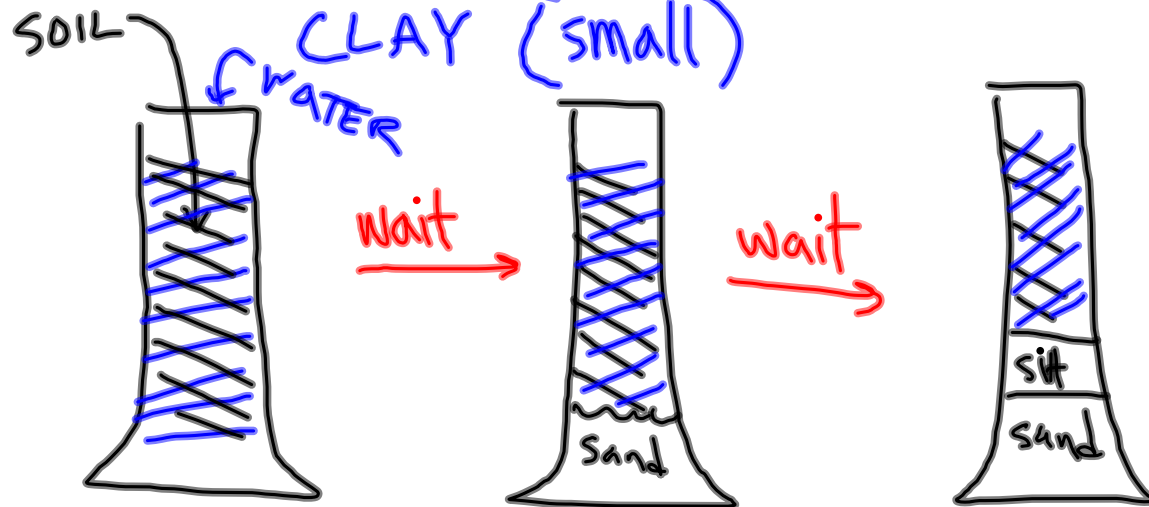
Soil texture:

% of soil that is:

SAND (largest)

SILT (medium)

CLAY (small)



## Soil moisture:

The mass of water (in grams) per gram of dry soil — ex.  $\frac{11\text{g H}_2\text{O}}{31\text{g soil}}$

$$\boxed{\text{mass soil w/water in it}} - \boxed{\text{mass of dried soil}} = \boxed{\text{mass of Water}}$$

## Measuring soil texture:

1. With a partner, collect some soil
2. Measure the mass of a Petri dish - add  $\sim 25\text{g}$  of soil
3. Crumble the soil into a graduated cylinder
4. Fill the cylinder to 50 mL with water
5. Shake for 60 sec
6. Put tape on cylinder - label with your initials & period DB SC Per 8

## Measuring soil moisture:

1. Measure the mass of an empty Petri dish - write on the underside of the dish
2. Loosely fill the petri dish with soil - re mass & write on the underside of the dish
3. Write initials & class period

