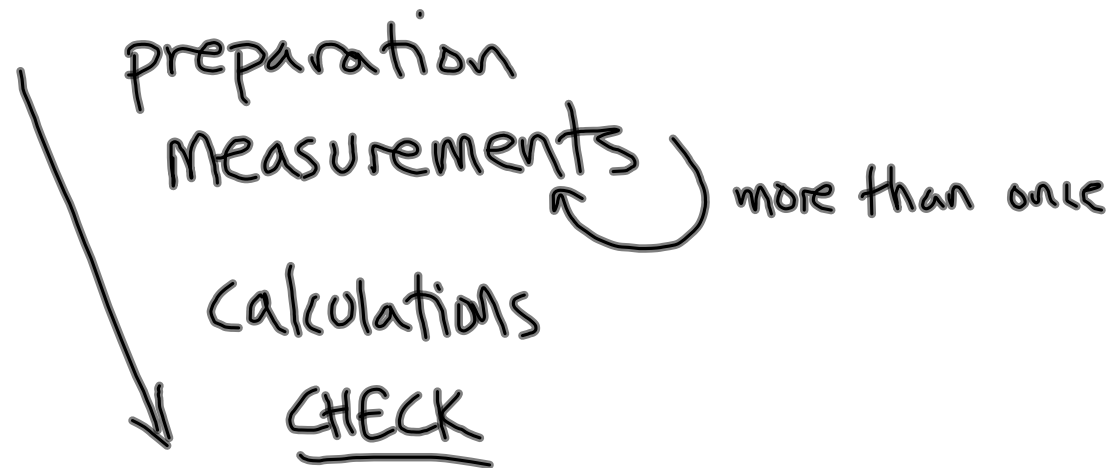


Soil Measurements:

moisture, texture, pH, Nitrogen



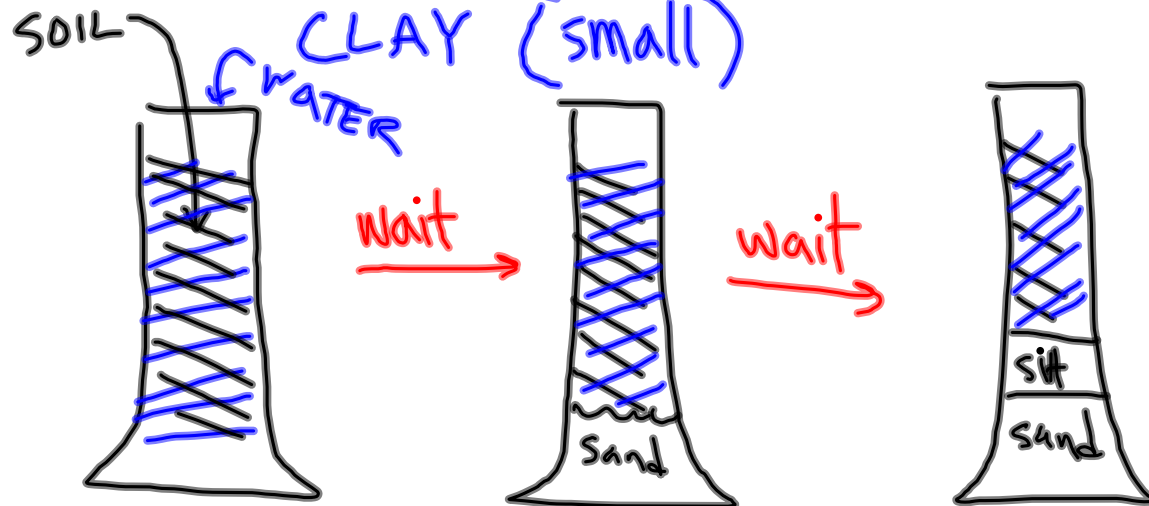
Soil texture:

% of soil that is:

SAND (largest)

SILT (medium)

CLAY (small)



Soil moisture:

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

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

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

