
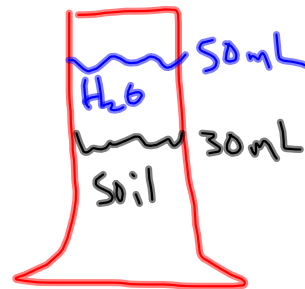


IF you got started:

- ①  silt measurement (mL)
sand measurement
- ② Measure total height of soil (mL)
- ③ Shake your container - wait 2 minutes, measure sand (mL)

10-15 mins for
instructions;
30 mins for
activity



Not started?

- ① Fill a graduated cylinder with ~30 mL of loose soil
- ② Fill up to 50 mL with H_2O
- ③ Gently stir (don't mix with H_2O on top)
- ④ Measure height of soil (mL)
- ⑤ Shake/wait 2 min/measure settled soil (mL)

Soil:

10 min

We'll be looking at different soil properties.

We'll be investigating different methods for measuring those soil properties

We're going to ask and answer a WITRS question about CV's soils

Everything we've done so far is designed to make you experts in the basic properties of CV's soil

- Soil dissection (general observations)
- Soil survey (online research)
- Soil texture, permeability, drainage → chemistry, nutrients, organisms

inform your study...

this is your background info!

Soil texture:

5 min

- How does it feel? (Mushy, grainy, etc.)
- Almost entirely caused by the size of soil particles
- We'll describe texture in terms of the soil particle sizes ---

Soil particle sizes:

5 min

Sand (biggest particles)

Silt (medium-sized)

Clay (smallest)

} combination
of these
determine a lot
of other soil
properties

Soil texture refers to the amount
of sand, silt, and clay

We'll estimate soil texture in two ways: 5 min

Soil settling rates

- It takes sand about 2 min to come out of water
- It takes silt about 2 hours
- It takes clay 2+ days

Hand texturing

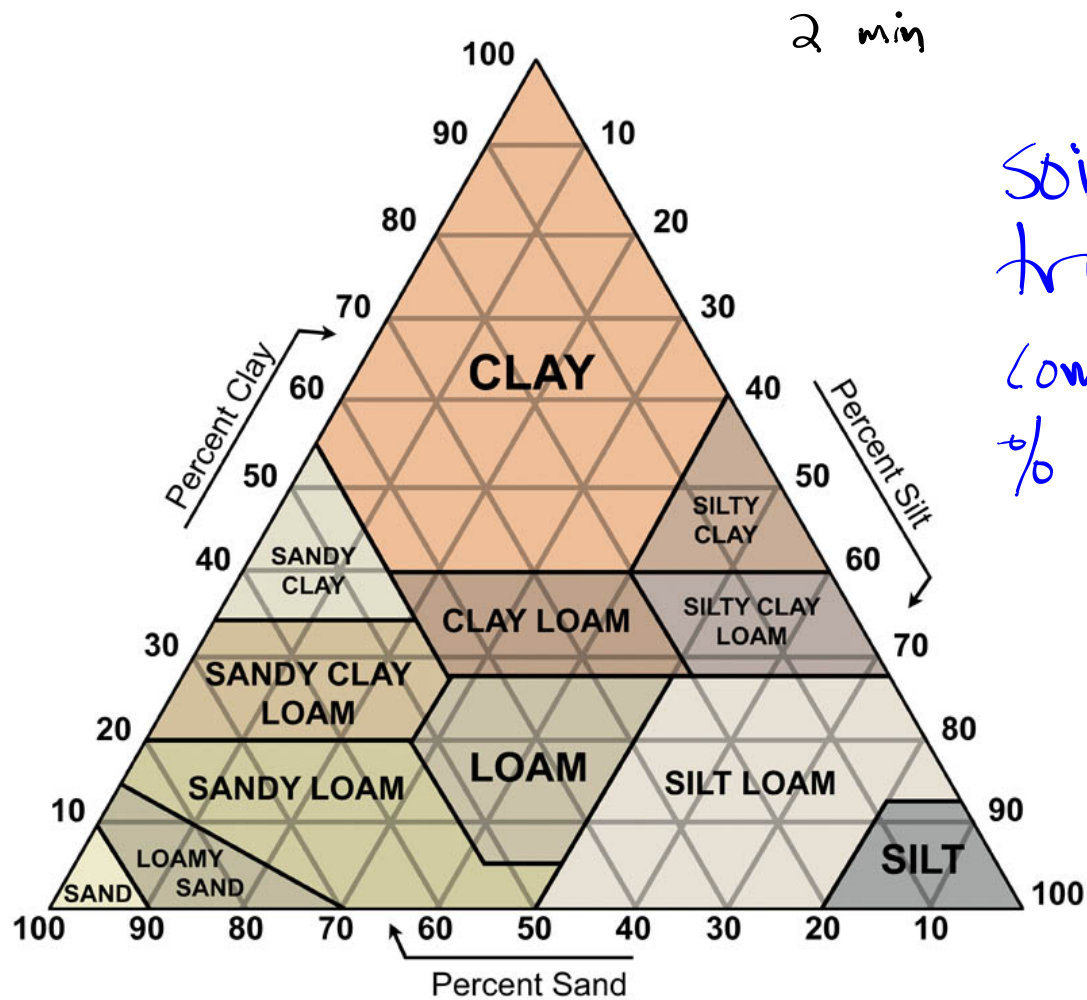
- Use a flowchart
- Answer questions
- It will lead you to a soil texture

When you're done: 2-3 min

- Soil settling lab will tell you the percentage of sand, silt, clay

- Hand texturing gives you one, two, or three word descriptions (sandy, silty, clay... "loam")

↑
a mixture of
all three types



Soil texture
triangle
combines
% & descriptions

TODAY:

Remainder of period

- ① Measure height of settled soil
(after 1 hour; silt estimate)
- ② Do hand-texturing activity

TURN IN:

- Names (2-3 people)
- Total soil height
- Height of sand (2 mins.)
- Height of sand + silt (1 hour)
- Description from hand-texturing

Clean up (any time remaining)