



Which Soil Holds The Most?

What soil type do you think will hold the most water?

After observing each soil sample, which do you think will retain the most water? _____

Materials:

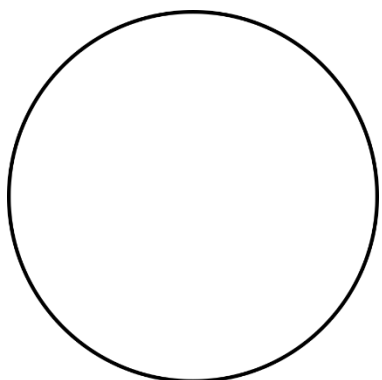
- Samples of sand, Soil³, gravel, clay
- 5 graduated cylinders or canning jars (one for measuring water, 4 for funnels)
- 4 funnels (if you don't have funnels you can cut the top off of water bottles and invert)
- 4 coffee filters
- Stop watch
- Water source

Directions:

1. Measure 50 mL of water in one cylinder.
2. Place a funnel in the opening of each cylinder.
3. Place a coffee filter in each funnel.
4. Put a sample of soil in each filter. (One sample per cylinder.)
5. Pour 50 mL of water into each of the funnels containing soil samples.
6. Set the time for 2 minutes. This will allow time for the water to pass through the coffee filter into the graduated cylinder.
7. Record your observations.
8. Create a graph representing your data.

My Observations

Soil Sample #1 _____

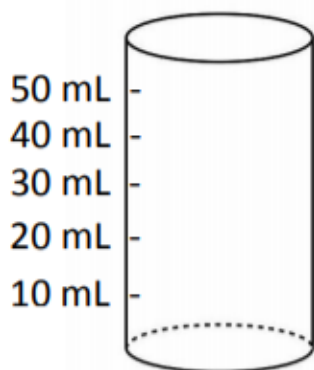


Draw your soil sample here.

Size of particles _____
(large, medium, small, mixed)

Color of particles _____

Retention of Water

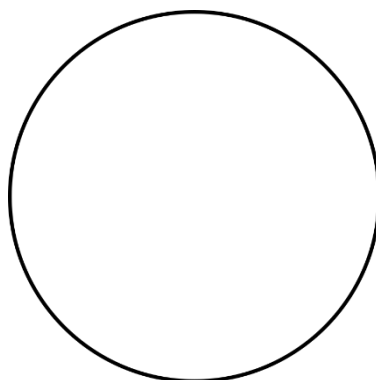


Amount of water poured in Funnel: 50 mL

Amount of water in graduated cylinder: _____

Amount of water retained by soil: _____

Soil Sample #2 _____

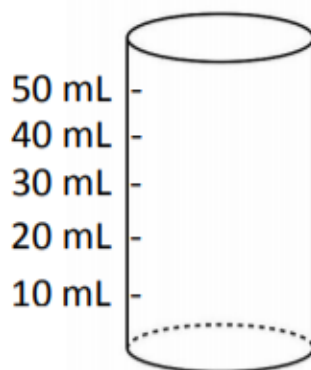


Draw your soil sample here.

Size of particles _____
(large, medium, small, mixed)

Color of particles _____

Retention of Water

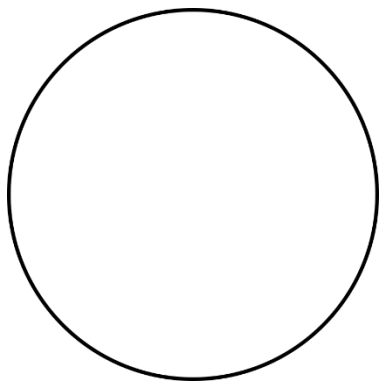


Amount of water poured in Funnel: 50 mL

Amount of water in graduated cylinder: _____

Amount of water retained by soil: _____

Soil Sample #3 _____

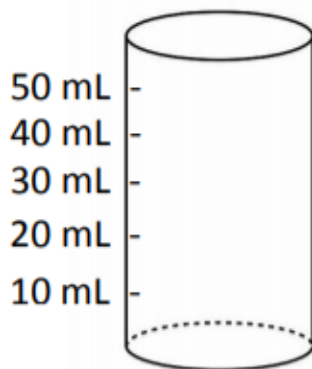


Draw your soil sample here.

Size of particles _____
(large, medium, small, mixed)

Color of particles _____

Retention of Water

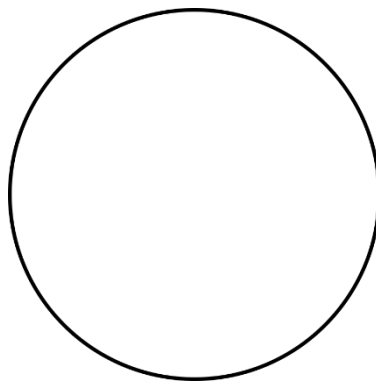


Amount of water poured in Funnel: 50 mL

Amount of water in graduated cylinder: _____

Amount of water retained by soil: _____

Soil Sample #4 _____

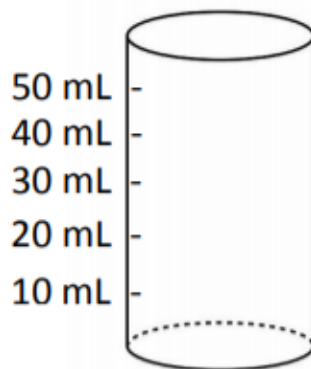


Draw your soil sample here.

Size of particles _____
(large, medium, small, mixed)

Color of particles _____

Retention of Water



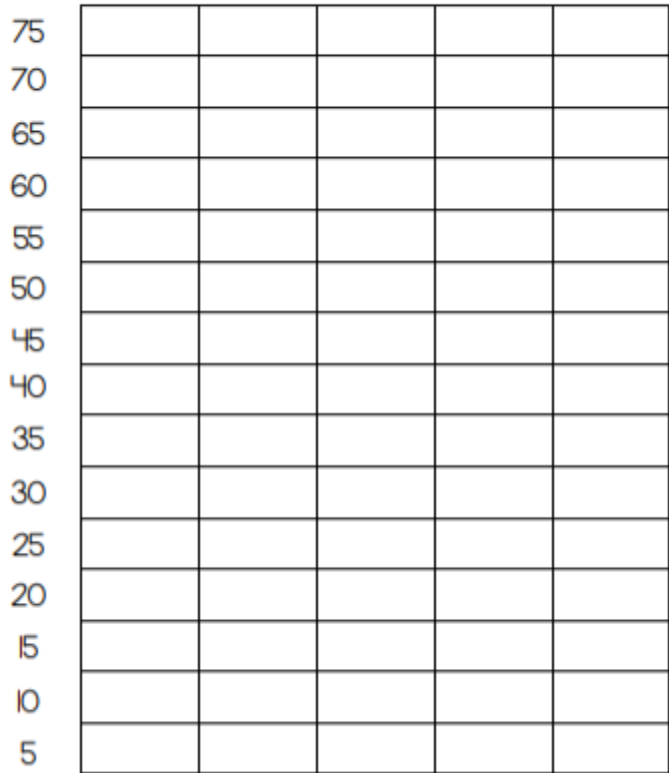
Amount of water poured in Funnel: 50 mL

Amount of water in graduated cylinder: _____

Amount of water retained by soil: _____

Soil Type	Amount of Water Poured into Funnel	Amount of Water in Graduated Cylinder after 2 minutes	Amount of Water Retained by Soil
1			
2			
3			
4			

(Title)



Conclusion

How could you increase the reliability of this experiment?
