

Monday 8th February 2021

OLI: To investigate the permeability of different soils

Watch the YouTube experiment of soil permeability. Complete the activity sheet - pause the video to make notes.

<https://www.youtube.com/watch?v=GqcbX-bSI3E>

Question: What is the permeability of different types of soils?

Prediction: I predict that _____ soil will be the most permeable and _____ soil will be the least permeable. I think this because _____

Equipment:

Samples of soil 

Measuring cylinders 

Beakers 




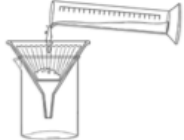


Water 

Coffee Filter Papers 

Funnels 

Method:

Repeat the instruction with each soil sample you are testing.

1. Place the funnel in the measuring container.	
2. Insert a coffee filter into the funnel.	
3. Add the soil sample to the lined funnel.	
4. Pour 300ml of water into the soil.	
5. Observe the water filtering through.	
6. After 5 minutes check how much water has collected in the measuring container and record this in the table below.	

Observational Record:

Type of Soil	Initial Observation (Describe what happened straight after you added the water).	Further Observation (Describe what has happened after 5 minutes including how much water has collected in the measuring container).	Permeability Use your initial observations and further observations for all of the soils to help you rank them from the most permeable to the least permeable (with the most permeable being given the number 1).