

LABORATORY REPORT

TITLE: SOIL OBSERVATION

PURPOSE: we observe a soil sample (for example from Bossi Garden or from the students' garden) in order to identify its main components. We use a magnifier and a microscope.

INSTRUMENTS AND MATERIALS: a soil sample, a watch glass, a magnifier, a spatula or a teaspoon, a slide, a microscope.

METHODS: we put a little soil on the slide and then we look through the lens.

Data:

COLOUR	
GRAVEL	
SAND	
LIVING ORGANISMS	<input type="checkbox"/> INSECTS <input type="checkbox"/> WORMS <input type="checkbox"/> EGGS <input type="checkbox"/> PLANTS
HUMUS	

Conclusion: we observe _____

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TITLE: SOIL SHAKE UP

PURPOSE: *find out* how much clay, silt and sand there is in our soil with a simple shake test.

INSTRUMENTS AND MATERIALS: a soil sample, a jar with a lid, some water, a spatula.

METHODS: we *put* the soil into a jar. We *fill* it up to three quarters of water. We attach the lid, then we shake the jar vigorously. We put the jar where it can rest undisturbed overnight. After 24 hours our jar's contents will have settled into distinct layers, gravel, sand, silt, clay, water and organic materials. We remember that:

- Gravel is big and weighty → at the bottom of jar
- Sand is weighty → over gravel
- Silt particles are smaller than sand → over sand
- Clay particles are the smallest → over silt
- At the top there are organic materials.

Observe this picture:

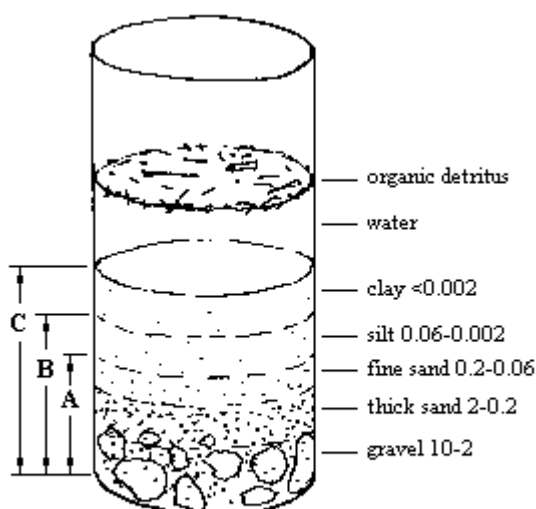


Figure 1 - Test for the composition of the soil.
(The sizes are in mm)

Data: we analyze our sample and draw its layers (Use this jar as a model).



Conclusion: we observed
