

THE WORLD UNDER OUR FEET: THE SOIL		
LESSON 4: EXPERIMENTAL ANALYSIS OF THE SOIL COMPOSITION		
Duration of Unit: 1 hour/ 1 lesson		
TEACHING AIMS	<ul style="list-style-type: none"><li>To enable learners to identify the main components of the soil</li><li>To raise learners’ awareness of known natural soils</li></ul>	
LEARNING OUTCOMES		
<b>Most learners should know:</b> <ul style="list-style-type: none"><li>The main components of the soil.</li></ul>	<b>Most learners should be able to:</b> <ul style="list-style-type: none"><li>Observe a soil sample and identify its components</li><li>Describe the results of the experiment.</li></ul>	<b>Be aware that</b> <ul style="list-style-type: none"><li>the soil is “a complex system”.</li></ul>
COMMUNICATION		
LANGUAGE OF LEARNING	LANGUAGE FOR LEARNING	LANGUAGE THROUGH LEARNING
Vocabulary: mixture, diameter, pore spaces, Abiotic factors - mineral particles (shingle, gravel, sand, silt, clay), water, air. Biotic factors – living and once-living things (plants, insects, earthworm, larva, ...). Laboratory instruments: magnifying glass, funnel, microscope, slide, beaker, watch	What can you see? I can see ... How many ... are there? What’s the biggest/smallest factor? Let’s do an experiment on soil texture Let’s work in teams	Language that emerges in carrying out tasks. Dictionary use for vocabulary extension.

glass, bottle, spatula. Adjectives: solid, liquid, gaseous, mineral, organic, small, big, average,		
<b>COGNITION</b> <ul style="list-style-type: none"> <li>Remembering about soil composition</li> <li>Classifying soil components</li> <li>Predicting what we will see under microscope.</li> </ul>		
<b>CULTURE</b> <ul style="list-style-type: none"> <li>Collaborating with classmates in order to realize soil experiences</li> </ul>		
<b>RESOURCES</b> <ul style="list-style-type: none"> <li>Laboratory reports</li> </ul>		
<b>ACTIVITIES IN SCIENCE LABORATORY</b> <ul style="list-style-type: none"> <li>Experimental team work: look under the microscope or magnifiers a sample of soil and complete the analysis sheet.</li> <li>The students carry out a simple experiment of sedimentation.</li> </ul>		
<b>ASSESSMENT</b> <ul style="list-style-type: none"> <li>Complete the observation worksheet</li> <li>Describe the results of the experiment.</li> </ul>		

[ALL MATERIALS, VIDEOS AND IMAGES ARE FOR DIDACTIC PURPOSES ONLY]