

Stereo micro Figures of three Soil Samples

Materials:

Stereoscope	½ Petri Dish	Scupula or spoon to get sample
Soil Samples A, B, & C	Blank Stereo micro Figure form	Pencil - Colored pencils

Procedure: - Put your Period number in front of each step when complete

1. Each team member follow these steps to setup SM80 Stereomicroscope

NOTE: Please Do not touch lenses! Only use lens paper to clean lenses

- a) Pick up scope by arm and base. Move to viewing position 6 – 12” from station edge.
- b) Remove cover and place in safe place, plug scope in if not already , check cord - away from sink,
- c) Turn Head/Turret to view position and screw lock. Then shift zoom (barrel) to 2X position
- d) Gently Crank Head/Turret up about 1/2 way
- e) Take ½ Petri Dish and get a sample from any of the three soil samples. Place enough to just cover the bottom of the Petri Dish.
- f) Turn light on one click (top light).
- g) Look through Eyepiece with left eye closed. Turn big focus knob until object is in focus.
- h) Close right eye and adjust the Ocular focus on the Left Eyepiece until sample in focus.
- i) Open both eyes, adjust focus as desired.
- j) Move Petri Dish to focus on one side of the sample
- k) **Figure Instructions:**
 - a. Take the blank Stereo micro Figure form and pencil and make an accurate drawing of this part of the soil sample.
 - b. Be as accurate and detailed as possible. Show woody debris, sand, stones, minerals decaying plants. HOWEVER.....
 - c. ... Don't get caught up in too much detail. The goal is to get three samples accurately drawn so all samples can be compared and identified to a specific layer.
 - d. Plan to finish each sample Figure in about 10-12 minutes. Pencil in notes to allow coloring/shading later.
 - e. Move Petri Dish as needed to fill circle with data
- l) Once one sample is completed, put sample back in the proper container.
- m) Repeat process until you have completed all samples, or time is up.
- n) **SHUTDOWN and Clean Up Sequence:**
 - o) Take soil sample off stage and put back in proper container
 - p) Clean stage
 - q) Turn off light.
 - r) Gently clean Eyepieces with Lens Paper
 - s) Turn Head around so Eyepieces are over the Focus/Arm.
 - t) Put cover on scope
- u) Clean up on and around lab station.