

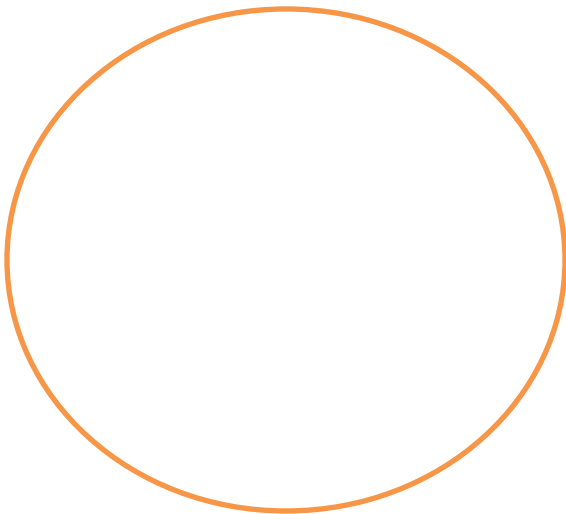
Cell Investigation Lab

Learner Outcome:

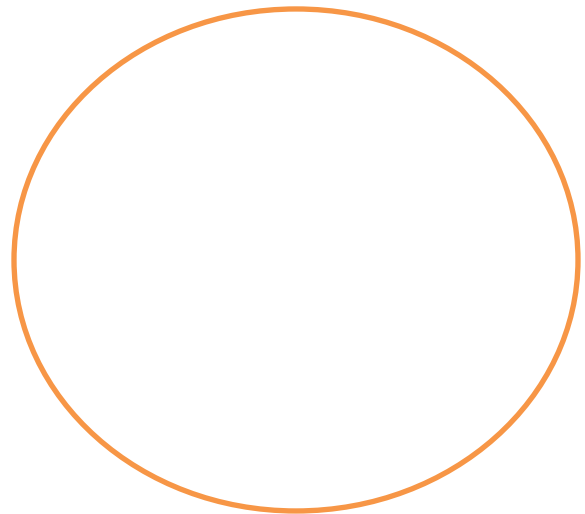
The student will be able to conduct an investigation in using a microscope and slide viewers in determining living from non-living things and evidence of cell types and varieties (Standard MS-LS1-1).

Letter “e” Slide:

Cut out the letter “e” from the newspaper. Place 2 drops of water on the slide using a pipette. Place the letter “e” on the water drops on the slide. Place the cover slip over the top of the letter “e”. View the letter “e” under the low power objective and high power objective. Draw the image in the circles below.



Low Power Objective



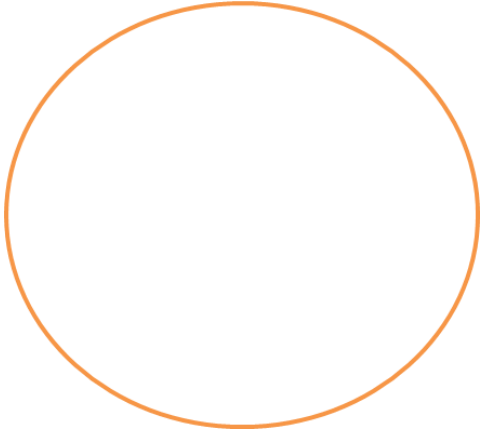
High Power Objective

Is the letter “e” living or non-living?

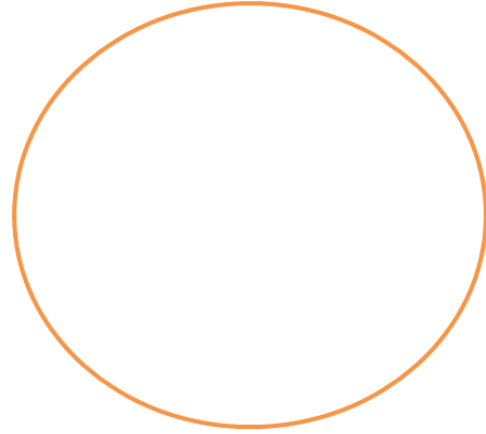
Why do you think the letter “e” is living or non-living? What do you see?

Euglena Slide (prepared slide)

Place the euglena slide under the microscope. Draw the image under the microscope.



Low Power Objective



High Power Objective

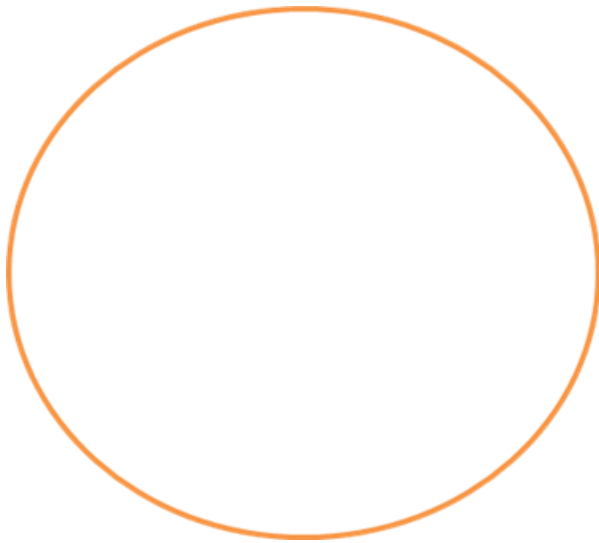
Are these specimens unicellular or multicellular?

Why do you think they are either unicellular or multicellular?

Do you see one cell type or various cell types?

Onion Slide (Slide Viewer)

Place the onion slide in the micro slide viewer. Draw the image in the circle.



Onion Slide

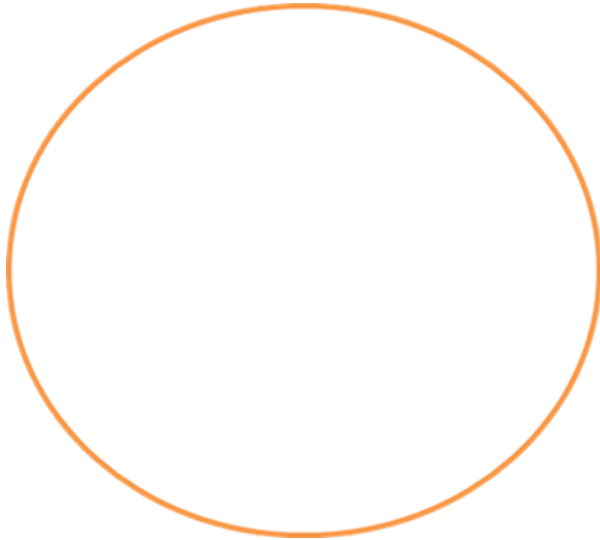
Does this slide show cells that make-up a unicellular or multicellular or multicellular organism?

Why do you think the cells are unicellular or multicellular?

Why do you think this slide shows something living?

Leaf Slide (Slide Viewer)

Place the leaf slide under the slide viewer. Draw the image in the circle.



Leaf Slide

Do you think the slide shows cells that are unicellular or multicellular?

How do these cells look different than the onion cells?

Does this slide show one type of cell or a variation of cells?

