

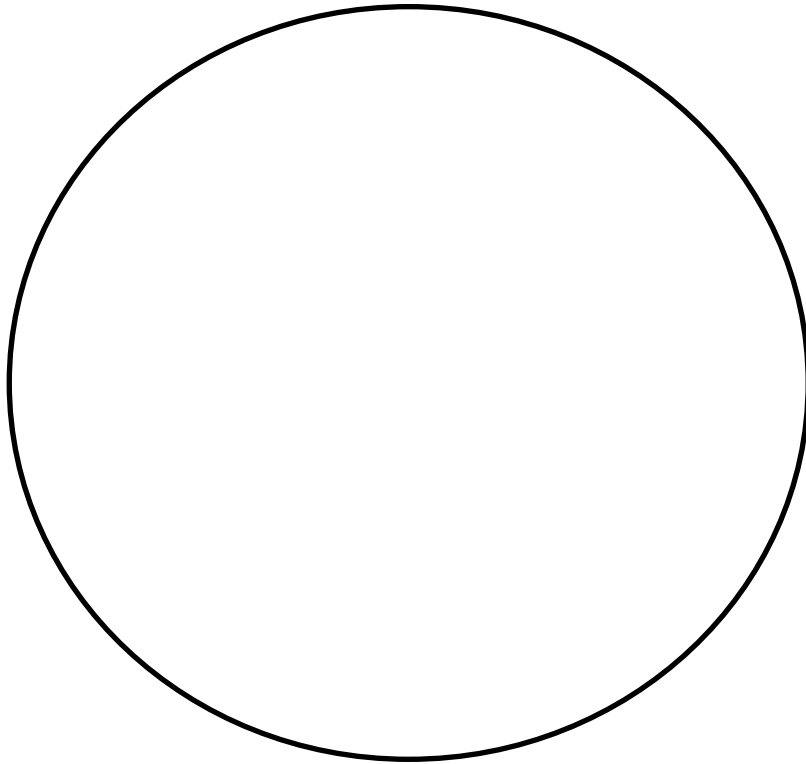
Essential Question: What are the characteristics & structures of living things?

Activity 5: Plants, Protists & Animal Cells.

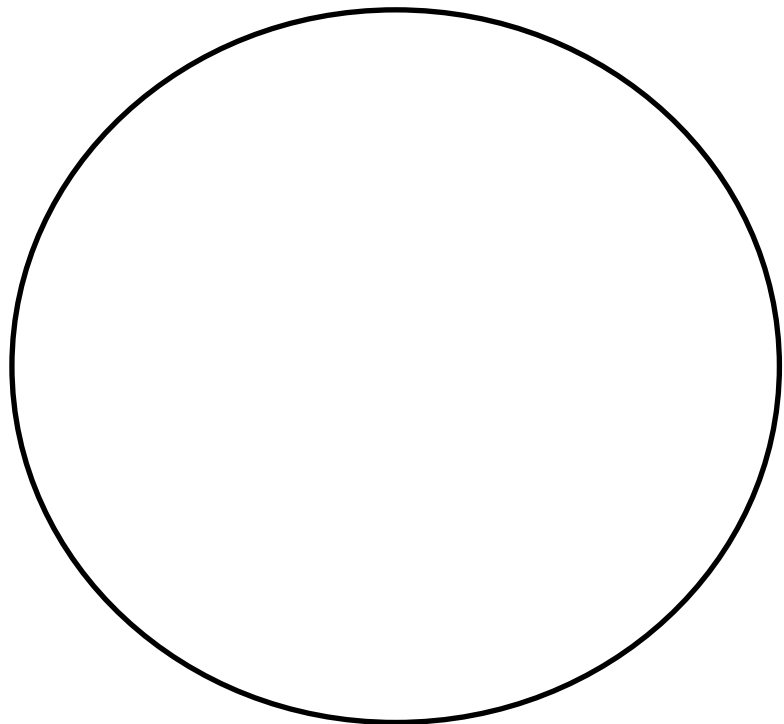
Purpose: a. I can *create & properly label* accurate Micro Figures of required plant & animal samples.

b. Given a sample or a Figure I can reliably *identify* and *describe* basic organelles in plant and animal cells

Instructions: Follow the procedures provided to prepare slides for each sample and then draw what is actually there. Record the magnification you observed each sample & label samples per the list on the side of the figure.



Sample = *Elodea*
Magnification = _____ X
Labels to include =
(1) *Cell wall*
(2) *Cell membrane*
(3) *Cytoplasm*
(4) *Chloroplast*



Sample = *Onion*
Magnification = _____ X
Labels to include =
(1) *Cell wall*
(2) *Cell membrane*
(3) *Cytoplasm*
(4) *Nucleus*
(5) *Nuclear membrane*

The discovery of mitochondria in general came in 1886 when **Richard Altman**, a cytologist, identified these organelles using a dye technique. Altman postulated the structures were the basic units of cellular activity.

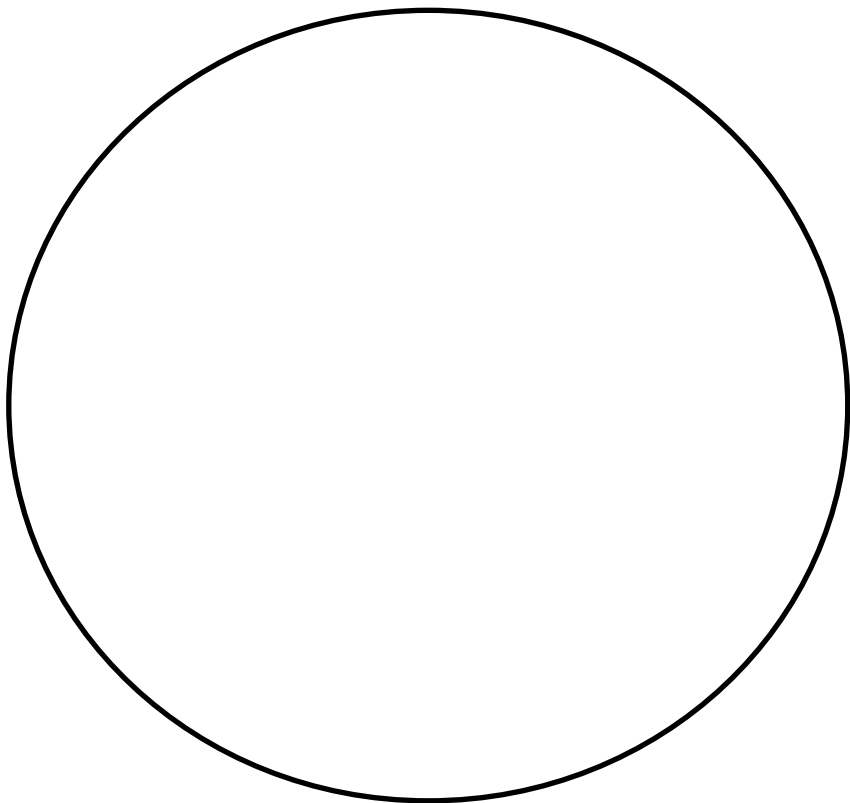
Student Review: 1-Below Standard, 2-Approaching Standard, 3-Standard, 4-Above Standard
Use the scale to evaluate completeness & correctness of the job. Put score, Initial & date in boxes.

Score

Initial/Date

Purpose: a. I can *create & properly label* accurate Micro Figures of required plant & animal samples.

b. Given a sample or a Figure I can reliably *identify* and *describe* basic organelles in plant and animal cells



Sample = Cheek cells

Magnification = _____ X

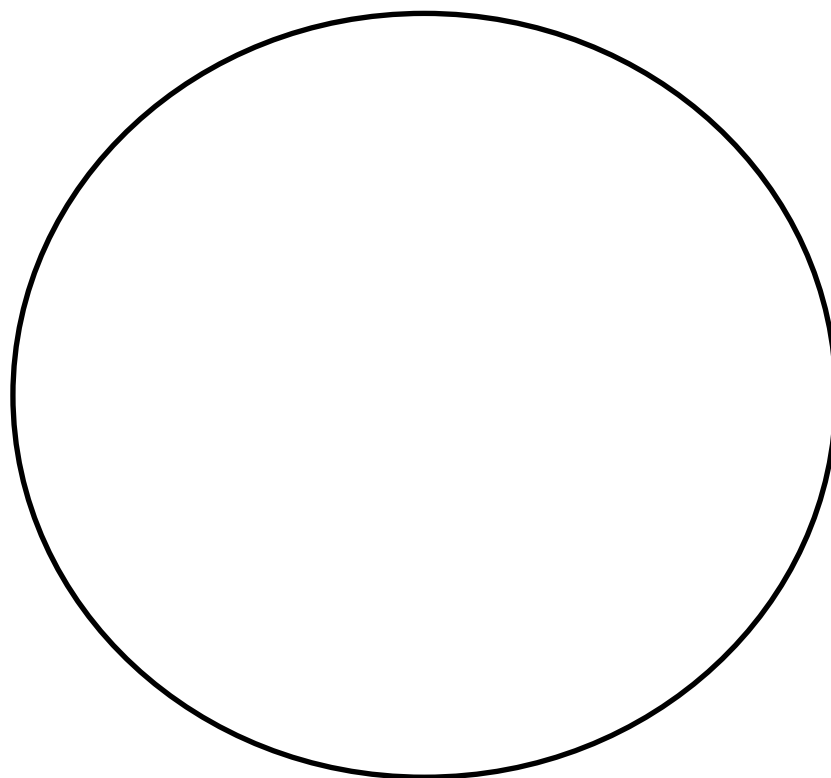
Labels to include =

(1) Cell membrane

(2) Cytoplasm

(3) Nucleus

(4) Nuclear Membrane



Sample = Amoeba

Magnification = _____ X

Labels to include =

(1) Cell membrane

(2) Cytoplasm

(3) Cytoplasm

(4) Nucleus

(5) Nuclear membrane

(6) Pseudopod

INSTRUCTIONS:

Use this Venn diagram to compare & contrast Animal, Plant, and Protist cells based on your observations as well as any prior knowledge. Place each of the observed cells from above in the appropriate category.

aching Standard, 3-Standard, 4-Above Standard
ctness of the job. Put score, Initial & date in boxes.

Score

Initial/Date

Protist

Animal

Plant

