Observing Colle

observing cells	Name
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Objective:	32 V V
Research:	
Organization in Living Things:	
	ade up of tiny units called
2. There are many kinds	of colle:
Examples. a	are long and thin
B	are square or rectangular
3. Cells differ in the jobs	they do. The shape of the cell
o. Ochs direct in the jobs	they do. The shape of the cell
a. cells: examples: blo	ORGANS—DORGAN SYSTEMS—DORGANISM  Od cells, nerve cells  tissue, muscle tissue
examples: skin	tissue, muscle tissue
c. organs:	rt, ในุ้กg
examples: Hea	rt, lung
d. organ systems	latory system, respiratory system
examples: circu	latory system, respiratory system
e. organism:	To be the property of the prop
examples: dog,	amoeba
and menta.	
cell parts:epithelial cell:	
stain:	
iodine is for onion, methyl animal cells:	ene blue is for cheek cell
plant cells:	
According to the second	

#### PROCEDURE:

## PART A: ANACHARIS

1. Carefully remove a single leaf from a sprig of Anacharis.

2. Place the leaf on a microscope slide, adding a drop of WATER to make a wet mount. Make sure you add a cover slip.

3. Observe the leaf under low power. Carefully focus until you can see the rectangular cells of the leaf. Draw what you see in the space provided.

4. Observe the cells on medium power and draw what you see.

5. Observe the cells under high power and examine the contents of a single cell. Draw a single cell and label the following parts:
cell wall, cell membrane, cytoplasm, chloroplasts (you may try looking for vacuoles and a nucleus, but typically they are hard to see)

low power medium power magnification: \_\_\_\_ high power magnification: \_\_\_\_ magnification: \_\_\_\_

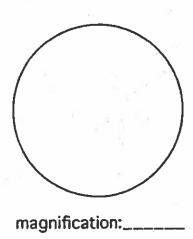
### PART B: ONION SKIN CELLS

1. Remove the Anacharis from your slide and dry your slide.

2. Obtain a piece of onion skin tissue and place it on the microscope slide. (make sure your peel is flat and not folded on top of itself)

3. Make your wet mount with one drop of lodine. Add a cover slip.

4. First focus on low power, but make drawing of your onion cell on medium or high power. Label the following cell parts: cell wall, nucleus, cell membrane, cytoplasm



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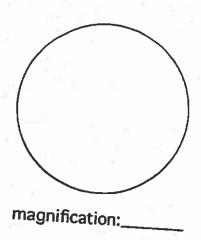
# PART C: EPITHELIAL CELLS

 CLEAN YOUR SLIDE. Using the flat end of a toothpick, GENTLY scrape the inside of your cheek to obtain some cells.

2. Deposit the material on the end of the toothpick onto your slide and smear it around in a circle.

3. Stain it with one drop of methylene blue. and add a cover slip.

Begin focusing on low, but try to get to high power with a cell or two in focus.
 Draw what you see and label the following cell parts on at least one cell:
 cell membrane nucleus cytoplasm



## FOLLOW-UP QUESTIONS:

	Name three cell parts you know about but could not find in any of the microscope slides:	
3.	Why do you think you could not find them?	
	What cell part gives Anacharis its shape?	
	How might a plant benefit from having many chloroplasts in its cell?	
	Both onion skin cells and Anacharis are plant cells. Why does one have chloroplasts but the other does not? Explain which one has chloroplasts and one doesn't and the reason:	

