## Cell Lab

Names:		Group:
Materials:		
Microscope	lodine stain	Methylene blue
Slides	Elodea leaf	Human cheek cells
Cover Slips	Toothpick (flat edge)	Onion Skin
ant Cells		
. Elodea Cells		
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·	an Elodea cell as it appears under high porasts, cytoplasm, and the nucleus (if you o	<del>-</del>
cell wall, chloropl	· · · · · · · · · · · · · · · · · · ·	can find it).

## 2. Onion Cells

a. Make a wet mount of a piece of onion skin. Look at under low power then high power. Now make a stained slide for a piece of onion skin. Instead of using a drop of water to make a wet mount, use a drop of iodine. Look at it under low power then high power. In the space provided, sketch an onion cell as it appears under high power and label the following structures: cell wall, cytoplasm, and the nucleus.

	b.	Are the nuclei always in the same position?			
	c.	Why don't the onion cells have chloroplasts?			
	d.	What kind of onion cell would you expect to find chloroplasts?			
	e.	What is the benefit of using a stain?			
B. Ani	ma	I Calls			
		Human Epithelial (Cheek) Cells			
		Using the flat end of a toothpick, scrap the inside of your cheek 5-6 times in the same direction. Put a drop of methylene blue on a glass slide and then smear the cheek cells into the stain and cover with a cover slip. Discard toothpick. Look at under low power then high power. In the space provided, sketch a cheek cell as it appears under high power and label the following structures: nucleus, cytoplasm and cell membrane.			
	b.	Do the cheek cells contain chloroplasts?			
	c.	What structure(s) were not present in the cheek cells that were present in the plant cells?			
	d.	What structures were present in all three cells?			
	e.	Why couldn't you see any other organelles in the cells?			
	f.	What is the function of the nucleus?			
	g.	What is the function of the cell wall?			
	h.	Why do plant cells have cell walls but animal cells do not?			
		Trify do plante cens have cen wans but animal cens do not.			