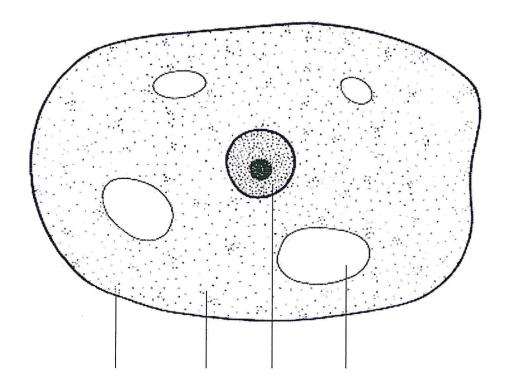
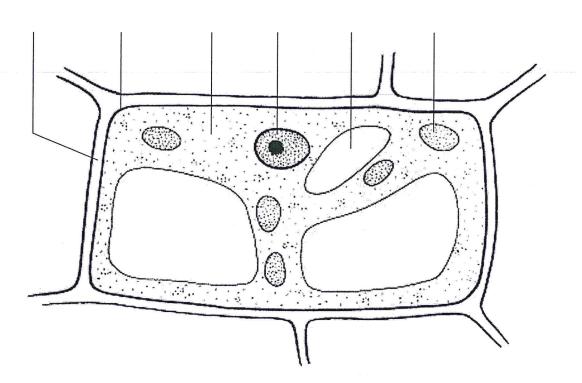
Blackline Master 1.4-1			
Name:		Date:	
Inquiry Investigation	on: Comparing Plant a	nd Animal Cells	
Always carry the microscop		under the base and one on the	
Use the coarse-adjustmen	nt knob only with low power.		
Use care when handling	the slide and cover slip. They	may shatter if dropped.	
QUESTION How do plant cells differ f	from animal cells?		
HYPOTHESIS If a microscope is used to their structures.	view them, plant cells can be o	differentiated from animal cells by	
	will prepare a wet mount of or ant cells. Then you will use a _l	nion cells. You will use your slide prepared slide to identify the	
Materials			
 apron safety goggles onion tweezers microscope slide 	 water cover slip light microscope rubber gloves iodine stain (Lugol's) 	 paper towel lens paper prepared slide of human epithelial (skin) cells 	
Analysis			
(a) In what ways do the o	n what ways do the onion skin cells differ from the human skin cells?		
(b) Why is it a good idea	to stain cells?		
- account of the second			

Nar	me: Date:
Inc	quiry Investigation: Comparing Plant and Animal Cells (continued)
(c)	Predict the function of the onion cells you observed under a microscope. What prominent cell structures would justify your prediction?
(d)	What typical plant cell structure appears to be missing from the cells of an onion bulb? Explain why this structure is missing. (Hint: Where is the bulb located?)
Eva	LUATION
(e)	A student viewing onion cells under a microscope sees just large, dark circles. What might have caused the dark circles? Did anyone in your class experience this difficulty?
(f)	What microscope skills are important in this Investigation? Explain why they are important.
	· · · · · · · · · · · · · · · · · · ·

Name: _____ Date:

Diagram for Labelling: Parts of Plant and Animal Cells Seen through a Light Microscope





Name: _

Date:

Diagram for Labelling: Microscope

