	Plant Cells Lab: Plant Cell (Onion Cell)	Name Period
الجي	Notes: / and X as you read	
	**Drawings MUST BE CHECKED while object is in focus.	
<u> </u>	**Always carry a microscope upright and with 2 hands, 1 on the	he arm and 1 under the base.
	**Read to each other as you each learn to focus.	
_	1. Obtain a clean slide and coverslip. Or, wash them.	
_	2. Obtain a section of onion. Remove only the INNER membra membrane (skin) on your slide. Put the main part of the or	
_	3. Add a drop of dye such as lodine to the onion membrane to	make the parts easier to see.
_	4. With your <u>slide</u> on a table, hold the <u>coverslip</u> at an angle, re See   √ drawing below. Then lower the coverslip to on top	
_	5. Now tap lightly on the coversli	p to help move out air bubbles.
_	6. Turn on the microscope light or move the mirror so you can the stage. You can adjust the diaphragm to get more or less	
_	7. Place your slide on the microscope stage so the onion members of the both stage clips on to the slide to hold it. Leave the Always USE a SLIDE, COVER SLIP and STAGE CLIPS when your stage of the both stage clips are stage.	m on while you work.
	8. Set your microscope on the <u>lowest power lens</u> (usually 100X	(). Read the number on the lens.
	9. "START CLOSE": Watch from the side and use the large coars move the <u>objective lens</u> close to the <u>stage</u> , but not touchin	
- -	10. "FOCUS AWAY": Look in the eyepiece as you slowly move to wheel so the lens moves away from the slide. STOP when The cells should look like yellow blocks in a wall. The yellow start you can't see the onion cellsGO BACK! Redo step 9 & 10 for sure. If that doesn't help, A 11. IF you have cells in focus, choose one cell that has no black so that cell is in the center of your view. (Keep stage clips on!)	you can see some cells. ow is from the iodine. Focus. ask. or, go back. (dry) areas and move the slide
	12. Increase the magnification (power) by turning the next larg	ger <u>objective</u> <u>lens</u> in place.
_	13. Refocus. Use the <u>fine adjustment</u> (small wheel) now, but o	only on high power.
_	14. Locate the <u>nucleus, cytoplasm, cell membrane</u> <u>and cell wal</u> Locate 1 or 2 <u>nucleoli</u> (singular = nucleolus). You may be able to	<del>-</del>
	15. Have your one cell checked in focus, BEFORE YOU DRAW.	Have checked for points
_	16. Use <b>plain paper &amp; pencil</b> . Draw, as large as your hand, a <b>SOL</b> cell. Draw the parts you found in #14. Have checked for	
_	17. Label the above cell parts with a straight edge, straight out	to the right. Points
_	18. Clean and return your slide and coverslip. Ask. Turn off the	e light.