Name:		Hour:	
Mitosis in an Onion Root			
Introduction: Mitosis can be observed in cells that are in a state of growth. In this lab, you will observe cells and identify which state of cell division the cells are in. To help you do this, let's review what characteristics to look for at different stages. Also remember, interphase in NOT technically a part of mitosis, but it is part of the cell cycle and many of the cells you will be looking at are in interphase. Identify each stage of the cell cycle in the chart below, describe what you would expect to see.			
Stage	Distinguishing Characteristics		
Interphase			
Prophase			
Metaphase			
Anaphase			
Telophase			
power objective and focus on one field of vision. You will use this snapshot to fill in the chart below.			
Stage	Detailed sketch of what it looks like:	Number of cells in this phase:	
Interphase			
Prophase			
Metaphase			

Anap	hase			
Telop	hase			
10100	11400			
Analysis Questions:				
1.	Why is the onic	on root a good specimen for studying mitosis?		
2.	2. The majority of the cells in your specimen were in which stage of the cell cycle? Why do you think this is?			
3.	3. In allium, interphase last about 15 hours, and mitosis takes up to 80 minutes. Assuming that each sta			
		kes the same amount of time, how many hours old is a cell that is just starting anaphase. need to do some math here - show your work or explain how you got to your answer).		
4.	Find a cell in a	stage of mitosis where you can see the following: cell membrane, chromosomes,		
		centromere. Draw that stage below and label these structures in your picture.		
5.	Which stage of identify?	mitosis is the easiest (in your opinion) to see on the slide? What makes it so easy to		