Name:			

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 stage of cell division the cells are in. To help you do this, let's review what characteristics to look for at the different stages. Also remember, interphase is 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 mitosis on the chart below and describe what you would expect to see.

Stage	Distinguishing Characteristics		

Procedure: You will be given a slide of Allium, which is an onion root tip. Growth occurs when cells divide, so the root tips should have several cells in the process of cell division. View the root tip under the microscope and search for organized blocks of cells where nuclei are plainly visible. (Most activity will be occurring at the tip of the root). Move the slide around until you find a good spot that shows the cells in various stages of mitosis.

Stage	Sketch	Estimated Number of Cells
Interphase		
Prophase		
Metaphase		
Anaphase		
Telophase		

Analysis