AP Biology		Name:
Chapter 9: The Cell Cycle and Cellular Reproduction		Date:
Mitosis Lab		Period:
<u>Pre-Lal</u>	<u>o Questions</u> :	
1.	How many cells are in your body? How were all of the	ose cells produced (from zygote to now)?
2.	How does the genetic information in the cells of your from the cells in your arm?	toes compare to the genetic information
3.	What are some advantages of asexual reproduction in	n plants?
4.	What is the importance of the fact that DNA is replica	ated prior to cell division?
5.	How do chromosomes move inside a cell during cell of	division?
6.	How is the cell cycle controlled? What would happen	if the control were defective?
7.	Give four purposes for cell division.	

8. How is successful division ensured?		
<u>Experimental Design</u> : Read through the lab handout for your lab. Using the information give, develop your own hypothesis and experimental design for testing a question about the rate of mitosis in plants. Answer the questions below.		
9. What is your experimental hypothesis? What is your null hypothesis? What is the difference between an experimental and null hypothesis?		
10. What is your independent variable? What is your dependent variable?		
11. Describe your experimental design.		
12. What data will you collect, and how will you analyze that data to determine whether it supports		
your hypothesis?		