Name	

## Unit 5 (Ch. 9 & 10.1) Cellular Reproduction Notes

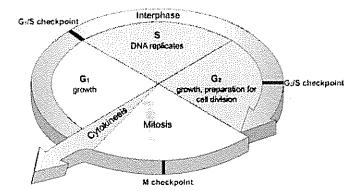
### **Cell Cycle**

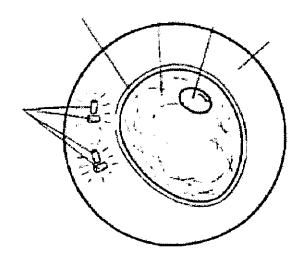
According to the cell theory, cells come from \_\_\_\_\_\_\_.

The \_\_\_\_\_\_ is the life of the cell.

## Cell Cycle (3 Main Stages)

- •
- •
- •





# Interphase

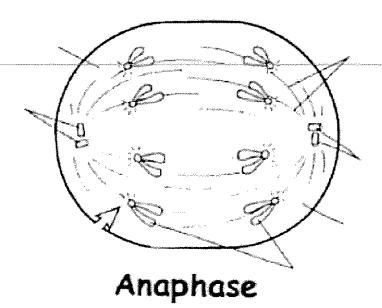
#### Interphase - 1st Stage of Cell Cycle

Cells spend	of their life in Interphase.		
Cells perform their _ Interphase.	during		
	and the of Interphase.		
of Inter	occurs during phase.		
Cells continue to gro	ow and prepare to divide during erphase.		
•	ints in the cell cycle regulated and		
Cell nucleus is visible	e and DNA is in string-like form		

se, Anaphase, Telophase)	– 2 <sup>nd</sup> Stage of Cell Cycle					
Division of the cell's						
The DNA copies/chromosomes are separated in 4 main phases.						
	•					
and	of an					
	disappears. denses into visible					
sister chromatids attac and align along the middle of the cell. of the cell.	each consisting of two h to the spindle apparatus or are at opposite poles					
	rated in 4 main phases.  and					

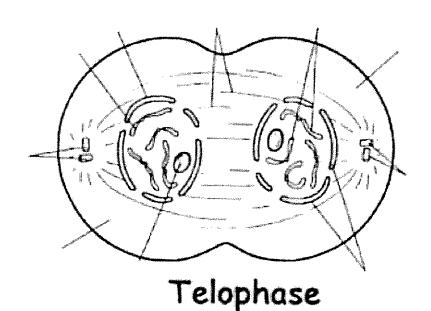
Metaphase

#### Anaphase



\_\_\_\_\_ chromatids (chromosomes) separate and move toward opposite poles of the cell.

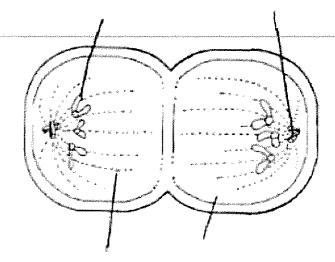
### Telophase



(chromosomes) reach the poles of the cell.

and
reform at each end of the cell.

Chromosomes/DNA returns to the string-like form called



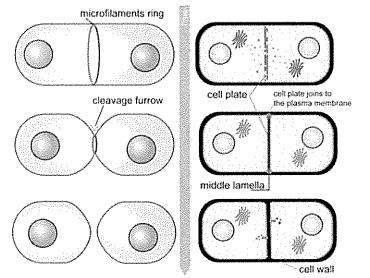
# Division of the cell's\_\_\_\_\_.

#### Cytokinesis in Animal Cells vs Plant Cells:

In animal cells, a \_\_\_\_\_ the cell into \_\_\_\_ cells.

In plant cells, a \_\_\_\_ and joins to the \_\_\_\_ and joins to

# Cytokinesis



Interphase "I"

Prophase "Promised"

Metaphase "Mother"

Anaphase "A"

organisms.

Telophase "Telephone"

Cytokinesis "Charlie"

#### **RESULTS OF CELL CYCLE (MITOSIS)**

	2		cells with the	
		number of	In humans, there	
	are	chromosomes in each body/somatic cell.		
۶	Important for	and	of living	