

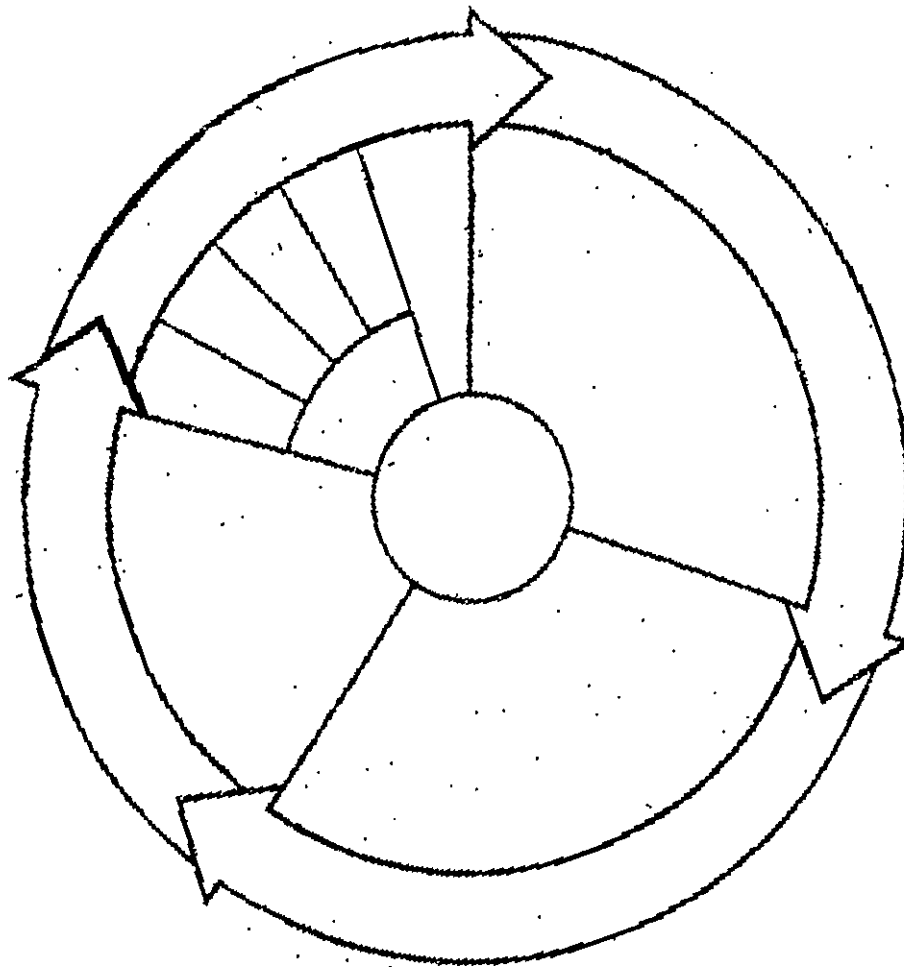
Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## The Cell Cycle Coloring Worksheet

Label the diagram below with the following labels:

Anaphase	Interphase	Mitosis
Cell division (M Phase)	Interphase	Prophase
Cytokinesis	Interphase	S-DNA replication
G1 - cell grows	Metaphase	Telophase
G2 - prepares for mitosis		

Then on the diagram, lightly color the G1 phase **BLUE**, the S phase **YELLOW**, the G2 phase **RED**, and the stages of mitosis **ORANGE**. Color the arrows indicating all of the interphases in **GREEN**. Color the part of the arrow indicating mitosis **PURPLE** and the part of the arrow indicating cytokinesis **YELLOW**.



*Use the diagram and your notes to answer the following questions.*

1. What is a series of events that cells go through as they grow and divide?  
\_\_\_\_\_

2. What is the longest stage of the cell cycle called? \_\_\_\_\_

3. During what stage does the G<sub>1</sub>, S, and G<sub>2</sub> phases happen? \_\_\_\_\_

4. During what phase of the cell cycle does mitosis and cytokinesis occur?  
\_\_\_\_\_

5. During what phase of the cell cycle does cell division occur? \_\_\_\_\_

6. During what phase of the cell cycle is DNA replicated? \_\_\_\_\_

7. During what phase of the cell cycle does the cell grow? \_\_\_\_\_

8. During what phase of the cell cycle does the cell prepare for mitosis?  
\_\_\_\_\_

9. How many stages are there in mitosis? \_\_\_\_\_

10. Put the following stages of mitosis in order: anaphase, prophase, metaphase, and telophase.  
\_\_\_\_\_

11. Put the following stages of the cell cycle in order: G<sub>2</sub>, S, G<sub>1</sub>, M.  
\_\_\_\_\_

12. Put the following in order: G<sub>2</sub>, G<sub>1</sub>, S, mitosis, cytokinesis.  
\_\_\_\_\_

13. Put the following actions in order: DNA replication, cell grows, cell division, cell prepares for mitosis.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

14. Explain why cells don't just continue to grow larger as organisms grow larger. Why do cells divide? (Write in complete sentences) \_\_\_\_\_  
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