

Name: _____

Period: _____

Date: _____

The Cell Cycle Project

Directions: First, **complete this worksheet** describing the stages of the cell cycle and mitosis (interphase, prophase, metaphase, anaphase, telophase, and cytokinesis).

Second, once you have completed this worksheet, using your notes/book you will **create a poster** visually showing each stage of mitosis and cytokinesis.

Your poster needs to include:

- 1) Drawings or visual models of each stage of the cell cycle and mitosis (**interphase, prophase, metaphase, anaphase, telophase, and cytokinesis**). [24 points]
- 2) Your drawings/visual models must have **each stage CLEARLY labeled**. [12 points]
- 3) You need to **label** the following structures in their appropriate stages: [14 points]
 - a. Chromosome
 - b. Centriole
 - c. Spindle
 - d. Nuclear envelope
 - e. Nucleus
 - f. Daughter cells
 - g. Sister chromatids

Questions: [5 points each]

- 1) What are the **three** main stages of the cell cycle?
- 2) What happens during **interphase**?
- 3) Describe what happens during **prophase**.
- 4) Describe what happens during **metaphase**.

5) Describe what happens during **anaphase**.

6) Describe what happens during **telophase**.

7) Describe what happens during **cytokinesis**.

8) **Define** the following terms (15 points):

- a. Chromosome -
- b. Centriole -
- c. Spindle (fibers)-
- d. Nuclear envelope -
- e. Nucleus -
- f. Daughter cells -
- g. Sister chromatids -