

Oreo Cell Cycle Student Worksheet



Materials Needed:

- 6 Oreo Cookies (per group)
- 2 Tablespoons assorted color rod-shaped candy sprinkles
- 6 Toothpicks (2 per group member)
- 3 paper towels (1 per group member)

Directions:

- 1) Using your textbook or other classroom resources, find an image of the cell cycle that includes: **interphase**, mitosis (**prophase**, **metaphase**, **anaphase** and **telophase**) and **cytokinesis**.
- 2) Using the image you found, you will create a model for each stage of the cell cycle listed above.
- 3) If your group has two members, each member will model three stages. If your group has three members, each member will model two stages of the cell cycle.
- 4) Carefully remove the top cookie from all six cookies by twisting the top cookie in a circular motion while holding the bottom cookie with your other hand. The bottom cookie with the cream filling attached will be used for your models (Note: You may eat the top cookie, or lay it aside.).
- 5) The cream filling represents the cytoplasm of the cell. You must create the structures inside the cell that play a role in the cell cycle using candy sprinkles.
- 6) The toothpicks may be used to remove or divide the cytoplasm or to move around the sprinkles.
- 7) Once you have created a model for each stage of the cell cycle, summarize what is happening in each stage in the table below.

Stage	Summary of Important Events
Interphase	
Prophase	
Metaphase	
Anaphase	
Telophase	
Cytokinesis	

Mitosis

8) Once you have modeled each stage and summarized the key events, ask your teacher to review your models and summary.

9) Once your teacher confirms that your models and summary are accurate, you and your group may consume what remains of your Oreo cookie models.

10) Clean-up: Discard all materials from your lab once your teacher approves of your models and summary. Wipe off all surfaces to remove crumbs.

Bonus:

How creative are you? Can you think of a sentence to help you remember the order of events in the cell cycle?

Example: In **P**rivate, **M**y **A**mazing **T**eacher **C**ries.

I-_____ P-_____ M-_____ A-_____ T-_____ C-_____

The best mnemonic device (sentence) will receive an extra Oreo 😊.