

**Directions:** There are many different ways to show your understanding of mitosis and meiosis. In this R.A.F.T., you can choose the product format that best suits your strengths and talents. You may use any experiences, notes, or textbooks as references, but everything must be in your own words.

Select an assignment from the list below. Make sure you understand

**Role of the Writer:** Who are you as the writer? A movie star? The President? A plant?

**Audience:** To whom are you writing? A senator? Yourself? A company?

**Format:** In what format are you writing? A diary entry? A newspaper?

**Topic:** What are you writing about?

A role is the person who you are pretending to be. Select a role that interests you. The audience is whom you are writing to or creating your work for. Format is the form in which your assignment should be presented. The topic is important because it should help you reveal as much as you know about Cell Cycle.

**Brainstorming** Ideas: After you select your assignment, you will meet with other students who have selected the same assignment. Your group will brainstorm ideas for 5-7 minutes, and these ideas will help you to complete the assignment.

**Write:** After the brainstorming period, you will individually write, draw, or illustrate your answer for the assignment.

When you have completed your draft copy, you can meet with a partner to review and revise your work. Later, you will also have the opportunity to share your product with students who selected other assignments.

**Requirements:**

Be sure to use the vocabulary words in your writing that relate to mitosis and cell division.

All sentences must be complete sentences.

Everyone must turn in his or her own RAFT assignment. Although you can brainstorm for ideas with classmates, you must complete the assignment independently.

**Be sure to include the following in your conversation:**

- The events of the different phases of mitosis and meiosis
- The major differences between mitosis, meiosis I and meiosis II
- The end product of each process
- How genetic variation is ensured in a species

**Check list/Rubric: (Total Points 50)**

**Content: Max: 40 pts**

- The events (12 pts)
- The major differences between mitosis, meiosis I and meiosis II (6 pts)
- The end products (3 pts)
- How genetic variation is ensured(3 pts)
- All vocabulary words are utilized in the appropriate context (16 points)

**Creativity and Pride: Max: 10 pts**

# Cell Cycle RAFT Prompt Options

**Directions:** Choose ONE of the following options to demonstrate your understanding of the cell cycle. Students will work independently for this assignment.

## This assignment is due

### Cell Cycle Video Project

1. Create a video project describing the cell cycle. The footage is simple claymation showing the different parts of the cell cycle. Your job is to edit the footage, insert descriptions of each stage of the cell cycle, and essentially personalize this footage to make it your own. Title and credit slides, voiceovers, and putting in still shots are all recommended.

### Cell Cycle Description Paper

2. Use your knowledge of the cell cycle to write a 4-paragraph paper about the different phases of the cell cycle. The first paragraph should describe why cells need to divide. The second paragraph should describe interphase, the third paragraph should describe mitosis, and the fourth paragraph should compare and contrast cytokinesis in plant cells and animal cells. Your paper should be typed.

### Cell Cycle Test Creation + Answer Key

3. Create a test for the Cell Cycle part of our cells unit. Tests should have sections on vocabulary, two short answer questions, and an optional extra credit portion. An answer key must be provided with this test. Tests and answer keys must be.

### Cell Cycle Cartoon or Mini-Poster

4. Using Comic Life, similar software, or by drawing and writing, create an 8-panel cartoon or mini-poster that shows and describes the different phases of the cell cycle. Make sure to appropriately label and color your project. Use your imagination!

### From One Cell's Point of View

5. Write a short story from a cell's point of view. The cell is growing and developing and getting ready for cell division. Your story should be at least 200 words long and contain information about what the cell is doing during each phase of the cell cycle.

