



Biology: Cell Cycle Project

Assigned: 10/25/2019

Due: 10/31/2019

Purpose : You will be completing a project to show what you know about the cell cycle. Regardless of which project you choose, you must include a description of all phases of the cell cycle: Interphase (G1, S, G2), Mitosis (AND its 4 phases: prophase, metaphase, anaphase, telophase), and Cytokinesis. It should be clear which phase you are describing and what is happening in the cell during each phase.

Grading: This project will count towards percentage of your semester exam grade. You will be graded according to the attached rubric. This rubric **MUST** be turned in with your project or 10 points will be deducted.

Project Options:

- 1) Flip Book: Create a flip book that shows the entire cell cycle. Each phase must be labeled and the book should clearly show movement and what is occurring in each stage. In order to show movement, a minimum of 24 pages (at least 3 pages per phase) must be included.
- 2.) Children's Story: Write a children's story, at least 3 paragraphs, relating each part of the story to the appropriate phases in the cell cycle. This story can be a life story of the cell (Suzie Cell was born...then...), or it can be a creative story, such as an action story, romance, drama, sports, etc. The story must include pictures!
- 3.) Informational Pamphlet: Create an informational pamphlet, much like one that you could pick up in the doctor's office or travel agency to learn more about a topic. Your topic, of course, would be the cell cycle. Make it sound and look exciting! It should be a pamphlet that looks appealing and interesting – one that a reader would want to pick up and read.
- 4.) Real Life Scenario: Relate cell division to a real life scenario, such as a seedling growing into a tree, an embryo becoming a person, or a wound healing. The scenario must be scientifically correct and should include all parts of the cell cycle to explain what is happening. It must be at least one page of typed writing, have illustrations, and include citations of at least 2 sources. The purpose of this project is not only to describe the cell cycle, but also to relate it to your everyday life.
- 5.) Song or Poem: Write a song or poem about the phases of the cell cycle. The song or poem must include accurate descriptions of what occurs in each phase of the cell cycle. If writing a song, it must have a chorus and will need to be sung – either recorded or live! Make it catchy! *Other creative ideas such, as a comic strip, are welcome! If you have another idea, you must get it approved by your teacher before you begin!
- 6) Poster Infographic: Create a poster that includes the entire cell cycle. Each phase must be hand drawn and labeled clearly depicting each of the stages. Poster must neat and colorful to receive full credit.

NOTE: Please make sure you discuss the importance of the cell cycle (at least one paragraph) in your writing portion of your assignment before discussing the steps involved in the cell cycle.

Cell Cycle Project Rubric

Student Name _____

CONTENT: _____/40 points
_____/10 points A paragraph discussing the importance of the cell cycle (must be at least 5 sentences) - Site the sources you used to describe its importance. Make sure to have correct spelling and it's in your own words.
*Each of the following phases/parts of the cell cycle is worth 3 points each. To earn all three points, you must include the phase in your project and provide an accurate description of what happens during that phase of the cell cycle.
• _____ Interphase
o _____ G1
o _____ S
o _____ G2
• _____ Mitosis
o _____ Prophase
o _____ Metaphase
o _____ Anaphase
o _____ Telophase
• _____ Cytokinesis

NEATNESS & EFFORT: _____/5 points
To receive all 5 points, your final product must show that you took the time to create a beautiful masterpiece! Make sure that you have correct spelling and that it is easy to read! The product should flow nicely and be visually appealing.

CREATIVITY: _____/5 points
Remember, this is not an outline the textbook assignment! You are to take information about cell the cell cycle and use it to create a unique product that is unlike any other!

TOTAL: _____/50 points

COMMENTS: