

## Mitosis/Meiosis Group\* Project

For this assignment you must complete ONE project that shows the stages of mitosis AND meiosis and describes what happens in each stage. You and your partner only have to pick ONE project. This project will be graded on creativity, accuracy, presentation and knowledge. You will choose from the list of ideas provided and once you have determined what you will be doing, you will inform me. Each group has two people – no more and no less.

**\* You can decide to work by yourself!**

<p>Newspaper article – Write an article from the point of view of Walther Flemming, Otto Bütschli, August Weismann or Thomas Morgan lived during the discoveries of mitosis and meiosis. You must include the title of the newspaper, date, all the contributors and answer the “who, what, when, where and why” questions. Your article must be supported by pictures with captions, well organized thoughts, correct grammar and content. You must present your article to the class.</p>	<p>Write a children’s storybook – Write an original story explaining the steps of mitosis and meiosis. The story must include all the parts of a story including characters, plot, dialogue, vivid descriptions and illustrations. The story must be creative and show correct grammar. The story must be clearly written, illustrated and show an understanding of the concepts. You must create a book to present the story. You must read the book to the class.</p>	<p>Animated Movie - Create a moving clearly explaining the steps of mitosis and meiosis. It must be creative, accurate and show an understanding of the concepts. Your movie will visually show the steps of both mitosis and meiosis. Each page must have a picture (colored, and the colors must be consistent throughout the movie) as well as a description of what is happening to the key components.</p>
<p>Create a 20-multiple choice question test with answer key on meiosis. The test must include three diagrams on mitosis/meiosis/both for a student to examine before answering. Additionally, the test you create must have a reading passage of three to five paragraphs on either mitosis or meiosis.</p>	<p>Animated Flipbook – You must create a flip book depicting mitosis and meiosis that will show the stages of each process when flipped. Each page must have a picture (colored, and the colors must be consistent throughout the flip book) as well as a description of what is happening to the key components. At the end of the book, you must write a comparison and contrast of the two processes as they are seen in your flip book.</p>	<p>Political cartoon – You must create a political cartoon strip showing the steps of mitosis and meiosis. The cartoon must include colored drawings and captions. It must be creative and accurate and show an understanding of the concepts. The cartoon must be clean, neat and well organized. You may relate the cartoon to any political activities that have occurred in history. You must share the cartoon with the class.</p>
<p>Poem or song – Write an original poem or song explaining the steps of mitosis and meiosis. The organization of the poem/song must be clear. The poem/song must be descriptive, expressive and creative and must demonstrate an understanding of the concepts. Poems/songs must show correct grammar. For songs, the tune must also be provided. The song/poem must be read/sing to the class via a podcast/garageband/audacity.</p>	<p>Create a model of both mitosis and meiosis – Demonstrate the steps of mitosis and meiosis visually by creating a model of these processes. The model must be accurate, demonstrate knowledge of the information, and be a creative design. It must be a 3D model and cannot be a poster or drawing on paper. You must explain your model to the class.</p>	<p>Research one of the following genetic disorders: Patau syndrome, Turner syndrome, Klinefelter syndrome, or Edward’s syndrome. Your research must clearly define what causes the syndrome, physical attributes of a person with the syndrome, diagnosis, history, occurrence rate, treatment, and prognosis. Your research must be at least five paragraphs in length. In addition to these five paragraphs, you will have to include a work cited page.</p>

Possible Points	100%	75%	50%	25%	0%
20 pts Knowledge	Project demonstrates a clear understanding of meiosis and mitosis and correctly illustrates each of the phases. It is easy for an observer unfamiliar with mitosis to understand the process.	Project demonstrates a good understanding of meiosis and mitosis and correctly illustrates most of the phases. An observer unfamiliar with mitosis would probably understand the process.	Project demonstrates a limited understanding of meiosis and mitosis and incorrectly illustrates or does not include all phases. An observer would have a difficult time understanding the process.	Project shows little or no understanding of mitosis and meiosis and does not correctly illustrate any phase.	Project is not done!
20 pts Creativity	Project demonstrates a high level of creativity and originality.	Project demonstrates some creativity and originality, but resembles other projects.	Project demonstrates limited creativity and originality.	Project shows no creativity or originality. Fact based poster or PowerPoint.	Project is NOT done!
10 pts Neatness	Final project is neat and shows care and time was spent developing it.	Final project shows some carelessness and little time were spent developing it.	Final project shows carelessness and very little time was spent developing it.	Final project is sloppy and looks like it was rushed at the last minute.	Project is NOT done!
10 pts. Class time usage	Time was used wisely - 100% on all three days.	Time was used adequately - 75% on all three days.	Time was used poorly – 50% on all three days.	Time was used EXTREMELY poorly – 25% on all three days.	Project is NOT done!

Teacher Notes:

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