Mitosis Stop Motion Video Project

Instructional Goals/Objectives:

The students will understand the states and the functions of each state of mitosis.

The students will create a stop motion video to model the different stages and functions of mitosis.

Students will produce a movie with digital picture stills to interpret their knowledge of the different stages of mitosis

Students will be able to correctly distinguish between the different stages of mitosis as shown in their video.

Students will have a voice over on their video correctly explaining what is going on in each stage of mitosis.

Task: Students will produce a video depicting the different stages of mitosis. This video will be created using creative props/materials to depict the cell and it parts, a camera or video equipment (a smart phone will work). Students will use their own voice overs (digitally or manually) so they can personalize their video. This video will be graded with a rubric and the project will be done in class. Each group will need to create a story board and provide a script with their project. In the end, each group of students should have a finished product that shows all the stages of mitosis and includes a voice over explaining what is going on in each stage. Because you are working in groups you will also need to demonstrate collaboration throughout the process and the ability to stay on task.

Schedule: (Schedule is tentative and will be adjusted based on effective use of time in class and unforeseen events. If students cannot stay on task, they will be required to complete much of the project outside of class.)

Monday Feb 6th – Planning, start writing story board, script, gather materials.

Tuesday- Begin shooting movie.

Wednesday- editing, finish filming.

Thursday- Presentation

CATEGORY	8 (Extra-Ordinary)	6 (Ordinary)	4 (Below Average)	2
Content	All 4 stages of mitosis are covered to the extent that they were discussed in class.	All 4 stages of mitosis were discussed, but not the extent they were discussed in class.	Only 3 of the 4 stages of mitosis were included in the video presentation.	Only 1 or 2 of the 4 stages of mitosis were included in the video presentation.
Organization	Content is well organized and commentary is relevant to the related material.	Uses commentary to organize the video, but the overall organization of topics appears flawed.	Content is logically organized for the most part.	There was no clear or logical organizational structure, just lots of facts.
Originality	Product shows a large amount of original thought. Ideas are creative and inventive.	Product shows some original thought. Work shows new ideas and insights.	Uses other people's ideas (giving them credit), but there is little evidence of original thinking.	Uses other people's ideas, but does not give them credit.
Attractiveness	Makes excellent use of font, color, graphics, effects, etc. to enhance the presentation.	Makes good use of font, color, graphics, effects, etc. to enhance to presentation.	Makes use of font, color, graphics, effects, etc. but occasionally these detract from the presentation content.	Use of font, color, graphics, effects etc. but these often distract from the presentation content.
Workload	The workload is divided and shared equally by all team members. Students submitted story board and script on time.	The workload is divided and shared fairly by all team members, though workloads may vary from person to person. Materials turn in after deadline	The workload was divided, but one person in the group is viewed as not doing his/her fair share of the work. Storyboard and/or script incomplete.	The workload was not divided OR several people in the group are viewed as not doing their fair share of the work. Storyboard and/or script missing.