

Cell Cycle

WebQuest Description: In this WebQuest, you learn about the Cell Cycle. You will use this WebQuest to help identify different stages of the cell cycle.

Grade Level: 9-12

Curriculum: Science

Keywords: Mitosis, Cell Cycle

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Introduction

In this WebQuest, you will learn about the cell cycle and how it is involved in everyday life of cells. You will learn about all the different parts of the cell cycle and key characteristics of these phases. Your job as a group is to research a type of cancer of your choice. Since cancer is rapidly dividing cells, it gives you a real life example to study the cell cycle. In your project, you will make a visual aid to present to the class. The visual aid should include facts about the cancer, symptoms, death rate, occurrence, and any interesting facts about the cancer of your groups choice.

Tasks

The task of this WebQuest is to have you understand the concept of cell division through completing a project on a type of cancer of your groups choice. You will research the cancer you choose within this WebQuest.

Process

1. The first thing you will do as a group is watch the video posted below. After watching the video, talk with your partner about the video. Try to come up with key features to help you identify different parts of the cell cycle. 2. Next, work through the activity labeled Cell Cycle Activity. This activity will test your knowledge of the events of the cell cycle. GOOD LUCK!! 3. Now that you have worked through this part of the WebQuest, it is time to work on the project. Your group will choose a type of cancer to do research on and present to the class. You need to include the death rate, survival rate, occurrence, and other key features of your particular cancer. Be creative! Make your visual aid(examples: PowerPoint, Pamphlet, Poster, etc.) stand out and be informative for the class. 4. There is a resource listed "Cancer Information". Use this website to get started on research for your project. You are expected to use other sources this is just one to get the ball rolling.

Evaluation

During this WebQuest, you will be graded on different criteria. Below you will see a rubric for what is expected for this WebQuest. This assignment is worth 100 points. Multiply your final score by two to get your final score out of 100.

Category and Score	10-8	7-5	4-2	1-0	Score
Group Work	Students share workload equally and work efficiently. No disruptions	Students share most of the work load and work efficiently. Rarely disruptive.	Students do not share the work load or stay off task part of the time.	Students hardly stay on task and are disruptive to the class.	/10
Research	Research has correct scientific literacy and is current.	Research is mostly scientifically correct and is current.	Some research provided is not scientifically correct and/or is not current.	Research is not scientifically correct and/or is not current.	/10
Presentation: Worth 20 points!!	Both partners of the group present part of the research. Visual aide is provided and is clear and creative. Contains occurrence, death rate, interesting facts	Both partners present part of the information. Visual aide is present but maybe not so clear or creative. Contains occurrence, death rate,and interesting facts.	One partner dominates the presentation. Or Visual aide is present but not clear or creative. Contains some of the elements but not all(occurrence, death rate, interesting facts)	Partners are not prepared to present. Visual aide may not be present or if it is present it is not clear or creative. Does not contain occurrence, death rate, or interesting facts.	/20
Completion	All work is completed on time and attempted.	Most work is completed on time and attempted.	Part of the work is completed on time and partially attempted.	Work is not finished and not attempted.	/10

Category and Score	10-8	7-5	4-2	1-0	Score
				Total Score	/50

Conclusion

To wrap up this WebQuest, I would like for each group to write down one thing you liked about this WebQuest and One thing you disliked about it. Talk with each other and come up with one of each. This is to help make the WebQuest better in the future so be HONEST!!

Teacher Page

In this WebQuest, you will learn about the cell cycle and how it is involved in everyday life of cells. You will learn about all the different parts of the cell cycle and key characteristics of these phases. Your job as a group is to research a type of cancer of your choice. Since cancer is rapidly dividing cells, it gives you a real life example to study the cell cycle. In your project, you will make a visual aid to present to the class. The visual aid should include facts about the cancer, symptoms, death rate, occurrence, and any interesting facts about the cancer of your groups choice.

Standards

Alcos standard Biology 4: 4. Develop and use models to explain the role of the cell cycle during growth and maintenance in multicellular organisms (e.g., normal growth and/or uncontrolled growth resulting in tumors). ISTE standard 7 Global Collaborator: 7b Students use collaborative technologies to work with others, including peers, experts or community members, to examine issues and problems from multiple viewpoints.

Credits

Other