Cancer is a horrible disease that affects all of us in some way. Most of us know friends, family or people who have survived or died from Cancer. Today you will respond to the following questions to show what you know about Cancer, but you will work with a partner to learn about a specific cancer and how it impacted the life of a celebrity.

*First watch the video:* The Cell Cycle and Cancer by the Amoeba Sisters.

<https://www.youtube.com/watch?v=lpAa4TWjHQ4>

**Respond to the following questions:**

1. What is the major cause of Cancer? Type Response:
2. Genetic factors
3. Exposure to Carcinogens in the environment
4. Uncontrolled cell division (growth)
5. Mitosis (including cytokinesis) refers to a time in the cell cycle when cells are...   
   Type Response:
6. Dividing
7. Replicating DNA
8. Growing
9. Undergoing cell death
10. During which phase of the cell cycle do cells spend most of their time? Type Response:
11. Cytokinesis
12. Interphase
13. Mitosis
14. Which of the following is **NOT** a factor that makes cancer cells hard to treat?  
     Type Response:
15. Cells are outside invader cells that your immune system does not recognize.
16. Cancer cells have the ability to secrete their own growth hormone to acquire nutrients.
17. Cancer cells frequently undergo mitosis
18. What are some factors that may increase your chance of acquiring cancer?

Type Response:

1. What is a malignant tumor and how does it differ from a benign tumor?

Type Response:

1. Why does cancer make people so sick and often lead to death?

Type Response:

Please reflect on the following questions using complete sentences and/or paragraphs where appropriate. Type out information on a separate sheet of paper and edit for grammar and clarity before submitting via google classroom. Type responses directly below questions listed.

1. Choose one of the following cancers to research: *testicular cancer, breast cancer, stomach cancer, leukemia ,* [*bladder cancer*](http://www.cancer.gov/cancertopics/types/bladder)*,*[*lung cancer*](http://www.cancer.gov/cancertopics/types/lung)*,*[*melanoma*](http://www.cancer.gov/cancertopics/types/melanoma)*,* [*colon and rectal cancer*](http://www.cancer.gov/cancertopics/types/colon-and-rectal)[*Non-Hodgkin lymphoma*](http://www.cancer.gov/cancertopics/types/non-hodgkin)*,* [*endometrial cancer*](http://www.cancer.gov/cancertopics/types/endometrial)*,*[*pancreatic cancer*](http://www.cancer.gov/cancertopics/types/pancreatic)*,* [*kidney (renal cell) cancer*](http://www.cancer.gov/cancertopics/types/kidney)*,*[*prostate cancer*](http://www.cancer.gov/cancertopics/types/prostate)*,* [*thyroid cancer*](http://www.cancer.gov/cancertopics/types/thyroid)
   1. Describe the type of cancer, who is most susceptible to this cancer (age and sex), which tissues and/or cells are affected by this cancer, how common is this cancer?

Type Response:

* 1. List and briefly describe some treatments used to “fight” or cure the cancer you researched?

Type Response:

* 1. What are some symptoms and effects of the cancer you researched?

Type Response:

* 1. Find an example of a celebrity or someone in the media who suffers or suffered from this cancer give their name. Who he/she is/was?. Briefly describe their battle with cancer (i.e. did they survive? Are they in remission are they still fighting cancer? )

Type Response:

1. How could you change your lifestyle, diet etc. to reduce your chances of getting cancer?

Type Response:

|  |
| --- |
| Assessment: |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CATEGORY** | **4** | **3** | **2** | **1** |
| **Amount of Information**  **/4** | All topics are addressed and all questions answered with the appropriate number of details. | All topics are addressed and most questions answered with the appropriate number of details | Most topics are addressed, but more details are needed to fully explain the topics | Several topics were not addressed. More details are needed to explain the topics |
| **Scientific Literacy**  **/4** | All facts and explanations **are accurate** and reflects what the student has learned about the cell cycle and cancer. | Most facts and explanations **are accurate** and reflects what the student has learned about the cell cycle and cancer. | Some facts and explanations **are accurate** and reflects what the student has learned about the cell cycle and cancer. | Many facts/explanations **inaccurate.**  There is little reflection of what the student has learned about the cell cycle and cancer. |
| **Grammar and use of complete sentences and paragraphs**  **/2** | Writing is clear and organized into complete sentences or paragraphs were appropriate. There are virtually no spelling errors. | Writing is clear and organized into complete sentences or paragraphs were appropriate. There are few, minor, spelling errors. | Writing is not in complete sentences and paragraphs were not used.  There are several obvious spelling errors. | Writing is confusing and unclear. Sentences are incomplete and paragraphs were not used. There are numerous spelling errors. |

**Total: /10 = %**