

Semester 1 Final

Part A: For your final you must first develop a health/medical game that would be fun and informative for middle school students to play, and at the same time learn about the content behind the answers to the essential concepts from the semester.

Criteria:

1. Your game must be age appropriate,
2. Must address at least 3 topics (big ideas),
3. Focus on any 2 criteria (of the main four) from your IB grading rubrics,
4. Health concepts should be clear to a middle school student,
5. Should be enticing to play (colorful, etc.) , and will most likely have a theme.
6. It must also include instructions on how to play the game.

The game can be a board game, card game, arcade game, or any other type of game that YOU design.

You will be able to think about and create your design ahead of time, but there will be NO work time during the final period.

Here are the “Big” concepts from the semester

Must include:

1. Body Systems
2. Cell Structures
3. Homeostasis
4. Feedback in the body
5. Meiosis and mitosis,
6. Inheritance,
7. Alleles: Dominant, Recessive, and Codominant,
8. Independent and Linked traits
9. Cancer
10. DMD
11. Energy Production and Use (photosynthesis and Cellular Respiration)
12. DNA (including mutations)
13. Proteins and enzymes (including denaturing).

Your final will be scored by peer review and by me. We are looking for you to teach us, but in the context of the IB Scoring Criteria. In other words, if you picked Criterion A you should clearly have a lot of knowledge questions. If you pick Criterion B, you should clearly include many questions related to testing your topics. If you select Criterion C, you should consider including many graphs and data sets to interpret. Lastly, if you select Criterion D, much of your work will be around how your topics affect society. Please don't forget that the actual score you receive will come from the established rubrics.

Part B: you need to write me a quick letter about your performance so far this year. This letter is written directly to me in a conversational tone (doesn't need to be formal, but should be legible and use complete sentences), and I want you to address two things:

- 1) I want you to tell me anything you think I should know about your performance this first semester. Tell me what you have learned. Feel free to discuss how much you like or dislike class, and why. You could discuss things you plan to do better in second semester. Or anything about you that you think is important for me to know.
- 2) What do you think is the most important concept we have studied so far and why? After telling me why it's so important, you could tell me about something you find amazing about the topic you chose.

This is a separate document from the game and will be turned in the first few minutes of the final.