SBI 3CI Culminating Activity

The Purpose of this activity is to express your knowledge of the course content learned this semester.

For this project you will be creating a SBI 3C for dummies book that encompasses the overall expectations for each of the 5 main topics we learned this semester. You should use your notes, text book, and old tests to establish the appropriate content.

- The sections should cover all of the aspects learned in this course and any additional information that you deem relevant. Use your unit overviews as a guide.
- You should add any pictures and diagrams that will aid in the explanations of the topics.
- The overall goal of this book will be so that anyone could pick it up and learn what was taught in this course.

OR

Biology Game Show

Do you like watching game shows like Jeopardy, Deal or No Deal, or Are You Smarter than A 5th Grader? Have you always wanted to be a contestant on a game show? If this describes you, then this task was written for you!
For this culminating project, you have the opportunity to create your own game show quiz and even be a contestant for your classmate's game shows.
Your game must meet the following criteria:

- It must contain a minimum of 12 key questions from each unit (Cellular biology, Genetics, Microbiology, Anatomy, and Plants)
- Must contain; three vocabulary; three understanding/knowledge; three application; three lab or inquiry based).
- There must be an answer key attached/accessible.
- It must be interactive.
- It must use proper scientific terminology.
- It must use only course content.
- It can include the labelling of pictures or diagrams.
-

There are various game show templates available on the Internet for you to use as a guide. Take a few minutes to do a search for them, choose a format and template that you like, and have fun creating a review exercise both you and your classmates can use!

Power point game templates/ideas
https://www.thebalance.com/free-powerpoint-games-for-teachers-1358169

Board game templates/ideas
http://www.biologyjunction.com/biology_games.htm

All projects need to be emailed at roehrigscience@gmail.com or submitted in class no later than 3:10 on Thursday June 22, 2018.

Attached is a rubric from which you will be graded, please remember that this assignment is worth 5% of your final mark.

Below is a list of overall expectation taken from the Ontario Science Curriculum document, the whole document can be found by going to the following web address. *(note:* ***use 2008 document***)
http://www.edu.gov.on.ca/eng/curriculum/secondary/science.html

Cellular Biology

Life processes are determined by the structures and functions of biochemical compounds, cell organelles, and body systems. Technological devices that support cellular functions and processes can be used to improve human health. Substances that are present in our everyday lives can affect cellular functions and processes in positive and negative ways.

Microbiology

Groups of microorganisms have common characteristics, and these characteristics enable them to interact with other organisms in the environment Microorganisms can have both positive and negative effects on the environment. The technological use of microorganisms raises many ethical issues.

Genetics

Genetic research and biotechnology have social, environmental, and ethical implications. Variability and diversity of living organisms result from the distribution of genetic materials during the process of meiosis.

Anatomy of Mammals

Groups of organs with specific structures and functions work together as systems, which interact with other systems in the body. Technologies that are used to maintain human health have social and economic benefits and costs. Environmental factors, including natural factors and those resulting from human activity, can have a wide range of effects on human health.

Plants in the Natural Environment

Plants have specialized structures with distinct functions that enable them to respond and adapt to their environment. Plants are critical to the survival of ecosystems. Humans affect the sustainability of ecosystems when they alter the balance of plants within those ecosystems.