Chemistry of Life – Chapter 2
(Layered Curriculum)

Required Assignments:

- Chapter 2 Exam – C, B, or A Level (100 pts)
- Quiz – Ch2 Vocabulary (20 pts)

C - Level Assignments: (Everyone must complete 70 pts worth of assignments)

- Write and define all 35 vocabulary words in Ch. 2 of the textbook, listed on page 61. (10 pts)
- Test the pH of the substances provided. Make a colored pH scale like the one on page 43. (15 pts)
- Create a foldable on the properties of water or the 4 carbon-based molecules. Pgs. 44-48. (15 pts)
- Build a 3-D model model of a simple substance. Identify the substance and type of bond. Label the nuclei, protons, valence electrons, and neutrons. Choose from these: CO2, CH4, NH3, H2O, NaCl, CaO, MgO, or HF (15 pts)
- Complete the Ch. 2 Assessment on pg. 61-62. (15 pts)

C - Level Total

Overall Total

Create a concept map using 20 vocabulary words from Ch. 2 to show how they are inter-related. (10 pts)

Watch Biology Crash Courses (#1, #2, #3) and take half page notes over each one. (15 pts)

Watch AmoebaSisters Video over the 4 carbon-based molecules. Print and complete this worksheet. (15 pts)

Complete the Atoms, Ions, and Molecules Worksheet. (10 pts)

Complete all of the section assessment questions at the end of each of the 5 sections in Ch.2. (3pts per section)
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B – Level Assignments: (Only choose 1, must complete C – Level assignments first)

- Enzymatic Activity Lab on pg. 57. Complete a lab write up following the instructions on the Biology Lab Report Guide. (15 pts) Date: __________________________
- Go through the “Properties of Water” lab stations. Answer the questions on the lab handout (15 pts) Date: __________________________
- Create a one-page song that summarizes Ch. 2. Make an audio or video of you performing it, email the link to the teacher, and turn in your lyrics. (15 pts)
- Complete the “Biological Molecules” POGIL worksheet. (10 pts)

B – Level Total

A – Level Assignments: (Only choose 1, must complete C – Level and B – Level assignments first)

- Protein Folding Exercise: Get the supplies from the teacher. Follow the instructions on this lab guide to complete the activity. (20 pts)
- Atkins Diet Essay: Based on what you learned about lipids, proteins, and carbohydrates, do some research on the Atkins diet and write a 350-word essay about whether you think it is a GOOD idea or a BAD idea. Cite your Sources. (20 pts)
- Life Giving Properties of Water Literature Review: (20 pts)

A – Level Total
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Chemistry of Life: A-level links and instructions

Protein Folding Exercise:
This file is a Google Doc. You must either access it through a computer, or have the GoogleDocs App on your phone so you can edit and manipulate this document. You must get the materials listed at the top from the teacher.

Life Giving Properties of Water Literature Review:
You must get the literature review paperwork either by clicking here, or from the teacher and make a copy for yourself. Then, you need to complete the literature review by reading the four articles in these links and completing the tasks laid out for you on the paperwork.

- Article #1
- Article #2
- Article #3
- Article #4