



# Summer Science Homework

I hope you are enjoying your summer break. In order to cover all the material for the Regents Exam and to set the tone for the school year, you will need to complete some work over the summer. I think you will find this relatively easy, though it will definitely take some time to complete. I am available to answer questions via e-mail if you find yourself struggling with the information. Since you don't yet have your textbooks, you will need to access the online edition of your text in order to complete the assignment. I will be distributing this information at the parent meeting on August 6<sup>th</sup> or you can e-mail me for the login information.

## **Task #1:**

I would like you to read ALL of Unit 1 (pages 7-70) prior to the start of school. This is the introductory unit of our book.

## **Task #2:**

Create index cards to define the following terms (use the format on the next page):

- |                  |                           |                       |
|------------------|---------------------------|-----------------------|
| 1. Skepticism    | 18. Genome                | 35. Buffer            |
| 2. Observation   | 19. Genetic engineering   | 36. Carbohydrate      |
| 3. Hypothesis    | 20. Biometrics            | 37. Lipid             |
| 4. Experiment    | 21. Ecology               | 38. Protein           |
| 5. Control group | 22. Environmental Science | 39. Amino acid        |
| 6. Theory        | 23. Atom                  | 40. Nucleic acid      |
| 7. SI            | 24. Element               | 41. Nucleotide        |
| 8. Biology       | 25. Valence electron      | 42. DNA               |
| 9. Cell          | 26. Compound              | 43. RNA               |
| 10. Homeostasis  | 27. Molecule              | 44. ATP               |
| 11. Metabolism   | 28. Ion                   | 45. Energy            |
| 12. Reproduction | 29. Cohesion              | 46. Reactant          |
| 13. Heredity     | 30. Adhesion              | 47. Product           |
| 14. Evolution    | 31. Solution              | 48. Activation Energy |
| 15. Epidemiology | 32. Acid                  | 49. Enzyme            |
| 16. Vaccination  | 33. Base                  | 50. Active site       |
| 17. Genetics     | 34. pH                    | 51. Substrate         |

Please use the following format when creating index cards:

Side 1

Chapter #
Vocabulary Term

Side 2

Definition
Examples/Picture (where applicable)

Index Cards may be hand written or you can choose to type them using your computer. To print, change the paper size to match that of your index card. Contact me if you need help.

### **Task #3**

Find and decorate a shoebox to hold your cards, as we will create several throughout the course of the year. Please keep them organized by chapter.

### **Task #4**

Complete the Language of Science Worksheet. This worksheet will help you better understand the language of science.



I will be giving a quiz within the first week of school, so please make sure you actually complete the reading. Summer assignments will be collected the first week of school as well.

**Good Luck! I look forward to a fun and exciting year in Biology.**