Unit 4: Genetic Engineering

All textbook times should include at least 1 full page (single side) of notes (more if needed) and all of the questions must be answered.

1. 13.1 (pg 342 of your textbook)
* Read pages 342-348
* Take Cornell notes as you read
* Answer questions 1-4 on page 348
1. 13.2 (pg 349 of your textbook)
* Read pages 349-356
* Take Cornell notes as you read
* Answer questions 1-4 on page 356
1. 13.3 (pg. 357 of your textbook)
* Read pages 357-361
* Take Cornell notes as you read
* Answer questions 1-4 on page 361

Reflections are to be written in the last (4th section) of your notebook.

Unit 4 Midway Reflection

1. Explain what a bacterial transformation is. Draw the three plates that we used in the lab. For EACH plate explain:
2. What the set up was (LB/Amp +, etc).
3. What the results should be for each plate.
4. What each plate shows (how it helps us draw conclusions)!
5. Discuss how genetic engineering can be a benefit for society. Give at least **two** real life, specific examples of how genetic engineering directly affects society. Talk about any possible negative affects that biotechnology can have on society.

Unit 4 Final Reflection

1. Draw a gel with DNA bands. Include 5 suspects and a crime scene. Make the crime scene match with suspect 4. Label the positive and negative ends of the gel. Label the longest piece of DNA with an “A” and the shortest piece of DNA with a “B”.
2. Explain the role of the restriction enzymes in this lab. Other than crime scene DNA matching what other applications does DNA Gel Electrophoresis have?