

Name \_\_\_\_\_

Period \_\_\_\_\_

Ms. Foglia - AP Biology

Date \_\_\_\_\_

### LAB 22. DNA RESTRICTION ENZYME SIMULATION

In this exercise you will use the computer to simulate the Lambda DNA restriction digests that you will also perform in the laboratory. Using the results from the computer simulation and your actual restriction digests, you will answer a series of questions designed to help you interpret the results of your DNA digests.

1. Download and SAVE the Lambda DNA sequence from the BiologyZone Web site: [http://bio.kimunity.com/ap\\_biology/labs/lambdaDNA.doc](http://bio.kimunity.com/ap_biology/labs/lambdaDNA.doc)
2. Save the file to your computer or to a disk.
3. Open the saved file in Microsoft Word. It contains the entire phage Lambda DNA sequence, or genome. Browse through the file. Notice how the file is simply a long string of the letters A, C, G and T.

#### Question 1

What does each of these letters represent?

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4. Now determine how many letters there are in the genome. To do this:
  - a. From the EDIT menu, choose SELECT ALL
  - b. Under the TOOLS menu, choose WORD COUNT
  - c. Note the number of characters.

#### Question 2

What is the size of the Lambda genome:

- a. in bases? \_\_\_\_\_
- b. in kilobases? (note: 1 Kb = 1,000 bases) \_\_\_\_\_

5. Click OK to close the window.

# Biology Lab 10 Restriction Enzyme Simulation Answers

**S Ashworth**



## **Biology Lab 10 Restriction Enzyme Simulation Answers:**

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## Reviewing **Biology Lab 10 Restriction Enzyme Simulation Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Biology Lab 10 Restriction Enzyme Simulation Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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