

Name \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_

Follow up to film: Murder, Rape and DNA

**DNA Technology Chapter 13**

Answers to the following questions may be found in pages 255-270 in the Modern Biology textbook. You are to **answer each question in complete sentences**. If you choose to answer the questions of a separate paper, attach your answers to this paper. **Be sure to restate the question in your answers.**

1. Approximately what percent of human DNA varies from person to person?
2. What is a DNA "polymorphism"?
3. What is a "VNTR"?
4. What is meant by a DNA "locus" ("loci" = plural)?
5. What is "PCR"? What is it used for? How is it related to DNA fingerprinting?
6. What is a DNA Fingerprint? Discuss the accuracy of using DNA fingerprints to establish relatedness.

7. Describe the major steps and techniques involved in preparing a DNA fingerprint.

8. What is an "SNP"?

9. What is a "proteome"?

10. Describe the purpose of the Human Genome Project, and name the potential uses of the information collected on the project.

11. *Extra credit:* How do you feel about the use of Genetic Databases to store DNA information from the population? What are some of the ethical concerns about the government collecting genetic information (such as DNA samples) from the public?