

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

## Worksheet: Unit 7 Review

### HONORS BIOLOGY: UNIT 7

**Directions:** *Answer the following questions using your notes, labs, worksheets, and textbook.*

1. What are **restriction enzymes** and how are they utilized with DNA?
2. Describe the process of **gel electrophoresis**.
3. What is a **restriction map** and how are they used to identify an individual person?
4. What is **Polymerase Chain Reaction** and what materials are required to carry out this process?
5. What is a **DNA Fingerprint** and how are they used?
6. What is **genetic engineering** and what are some of the ways in which it is utilized?

7. Describe the process of **cloning**.

8. What are **transgenic organisms**? Give some examples.

9. What is the **Human Genome Project** and when was it completed?

10. What is the **CRISPR-Cas9 system** and why is it important when it comes to genetic engineering?

11. What is a **pedigree**?

12. What is **selective breeding**?

13. What mode of inheritance is shown in the **pedigree** to the right? How do you know?

