# Genetic Engineering Study Guide

Name: \_\_\_\_\_

Notes: Karyotyping/ Gen. Disorders, Pedigree webquest, Manipulating DNA, Selective Breeding.

- What is the purpose of selective breeding? Give an example.
- 2. What is one disadvantage of inbreeding (why is it discouraged)?
- 3. What is the purpose of hybridization?
  - a. Give an example of a hybrid organism.
- 4. What is genetic engineering?
  - a. What is a disadvantage or ethical issue with genetically modifying organisms?
- What is recombinant DNA?
- 6. What is the purpose of gel electrophoresis?
- 7. What is a clone?
  - List the steps it took to clone Mimi the mouse or Dolly the sheep.
- 8. How many chromosomes does the normal human have?
  - a. What would my sex chromosomes be if I were female?
  - b. If I were male?
  - c. Has anyone ever been born without an X chromosome?
  - d. Where are most sex-linked genes found?
- 9. What is the purpose of a karyotype?
  - a. List 3 things a karyotype shows?
  - b. What does homologous chromosomes mean?
- Human gametes contain \_\_\_\_\_ autosomes and \_\_\_\_\_ sex chromosomes each.

# **Genetic Engineering Study Guide Key**

James Trefil, Robert M. Hazen

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