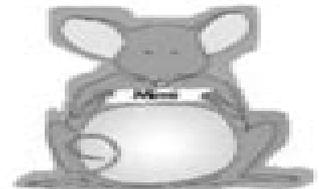


Genetic Engineering Study Guide

Name: _____

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

1. 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?
5. What is recombinant DNA?
6. What is the purpose of gel electrophoresis?
7. What is a clone?
 - a. 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?
10. Human gametes contain _____ autosomes and _____ sex chromosomes each.



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Lei Shi



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