

Chapter 2 Review Guide

1. Give examples of traits controlled by single genes.
2. What are multiple alleles? What is the example?
3. How do we know if trait is controlled by many genes? Give an example.
4. Name three environmental factors that can alter the effects of genes.
5. Which parent determines the sex of children? Why?
6. What are sex-linked genes? Give an example.
7. What is a pedigree?
8. What do the different symbols on a pedigree represent?
9. What are the four genetic disorders we studied? How is each passed on?
10. What are the characteristics of each genetic disorder?

11. What is an amniocentesis?
12. What is a Karyotype?
13. What are an amniocentesis and a Karyotype used for?
14. What does a genetic counselor do?
15. What is selective breeding?
16. What are the two types of selective breeding we studied? Describe each.

17. What is cloning?
18. What is one way to clone a plant?
19. How are animals cloned?

20. What is genetic engineering?
21. How can genetic engineering be helpful?

22. What is DNA fingerprinting?

23. What is a genome?
24. What is the main goal of the Human Genome Project?