

Name \_\_\_\_\_ Date \_\_\_\_\_ Per \_\_\_\_\_  
Biology

## Chapter 11 Guided Reading

*Use Chapter 11 Summary to answer the following questions.*

### 11-1 The Work of Gregor Mendel

1. What is genetics?
2. What did Gregor Mendel study to understand inheritance?
3. Describe the process of cross-pollination.
4. What is a trait?
5. List the seven traits of the pea plants that Gregor Mendel studied.
6. What is a hybrid?
7. What are alleles?
8. Explain the theory of dominance.
9. Describe segregation.

## **11-2 Probability and Punnett Squares**

10. What is probability?
  
11. How can probability be used in genetics?
  
12. What do probabilities predict?
  
13. Why did Mendel work with thousands of pea plants?

## **11-3 Exploring Mendelian Genetics**

14. Describe independent assortment.
  
15. What is incomplete dominance?
  
16. What is codominance?
  
17. What are multiple alleles?
  
18. What is a polygenic trait?