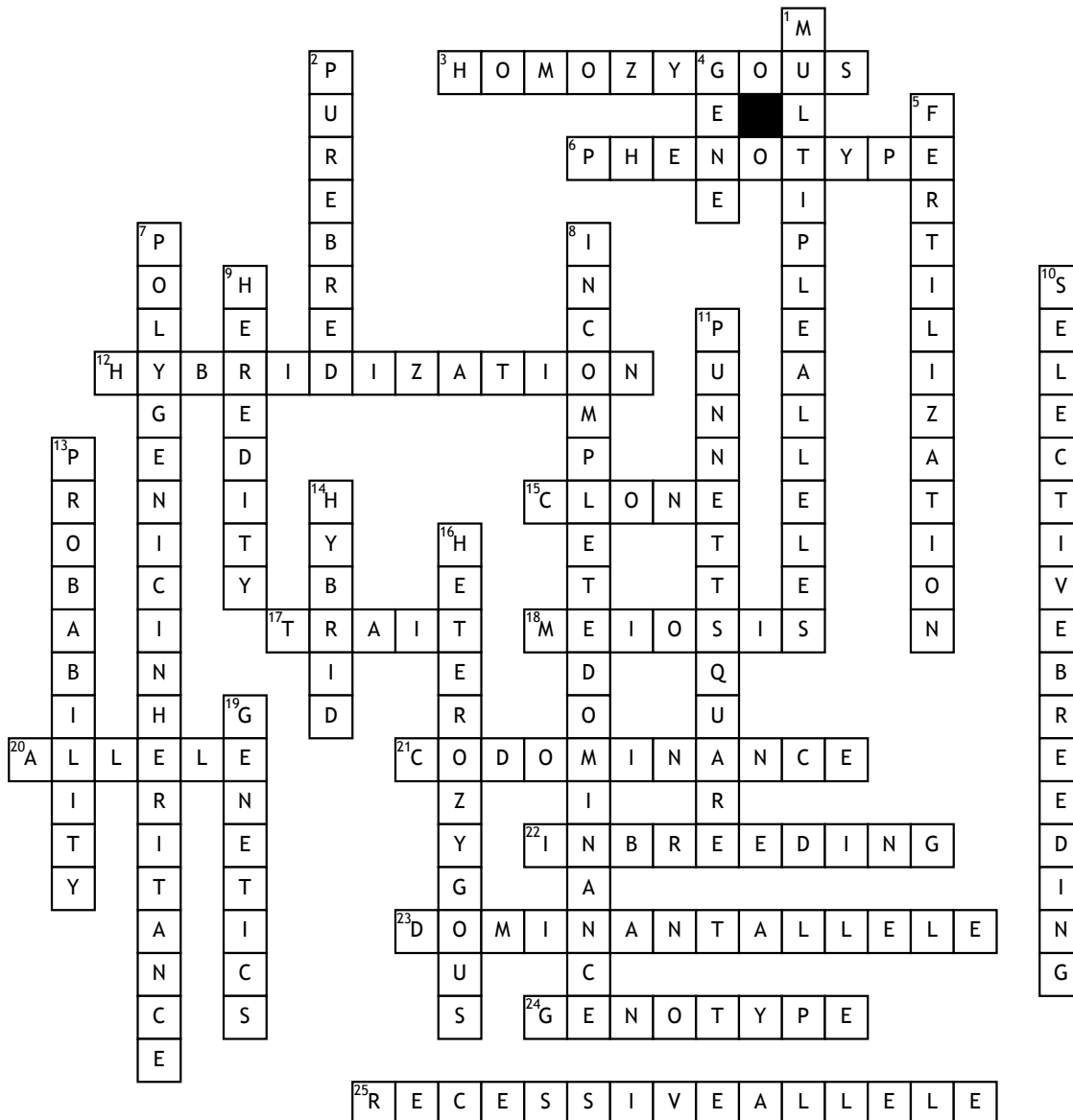


Name: _____

Date: _____

Chapter 12 Genetics



Across

3. having two identical alleles for a particular gene

6. an organisms physical appearance, or visible traits

12. a selective breeding method that involves crossing different individuals to bring together the best traits from both parents

15. an organism that is genetically identical to the organism from which it was produced

17. specific characteristic that an organism can pass to its offspring through its genes

18. the process that occurs in the formation of sex cells by which the number of chromosomes is reduced by half

20. the different forms of a gene

21. a situation in which both alleles for a gene are expressed equally

22. a selective breeding method in which two individuals with similar sets of alleles are crossed

23. an allele whose trait always shows up in the organism when the allele is present

24. an organisms genetic makeup, or allele combinations

25. the process in sexual reproduction in which an egg cell and a sperm cell join to form a new cell

Down

1. three or more possible alleles of a gene that determine a trait

2. an offspring of many generations that has the same form of a trait

4. a sequence of DNA that determines a trait and is passed from parent to offspring

5. the process in sexual reproduction in which an egg cell and a sperm cell join to form a new cell

7. the inheritance of traits that are controlled by two or more genes such as height

8. a situation in which one allele is not completely dominant over another allele

9. the passing of traits from parent to offspring

10. method of breeding that allows only those organisms with desired traits to produce the next generation

11. chart that show all the possible combinations of alleles that can result from a genetic cross

13. a number that describes how likely it is that a particular event will occur

14. an offspring of crosses that has two different alleles for a trait

16. having two different alleles for a particular gene

19. the scientific study of heredity