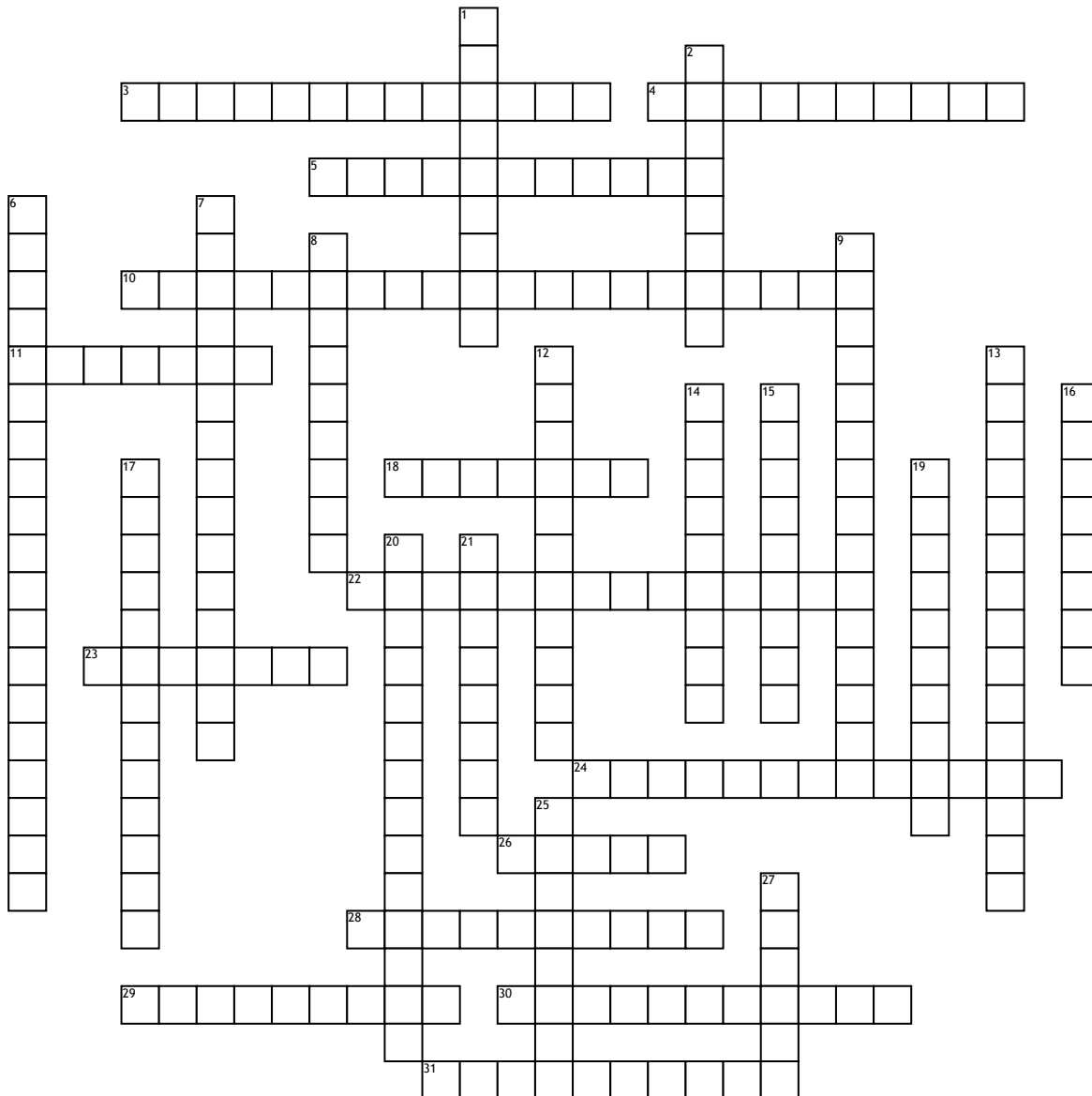


# Biology Chapter 8



## Across

3. a genetic cross that tests two sets of alleles  
 4. the attachment point of the two chromatids in a chromosome  
 5. a type of inheritance in which different alleles of a gene are expressed simultaneously, producing a phenotype that exhibits contributions from both alleles  
 10. a type of inheritance in which a trait is determined by more than one gene  
 11. the phase of the cell cycle in which a cell's duplicated DNA is divided into two identical sets  
 18. having two complete sets of chromosomes  
 22. a characteristic that is expressed only in the absence of a dominant allele of the gene that codes for that characteristic  
 23. having only a single set of chromosomes  
 24. a diagram that is used to visualize genetic crosses  
 26. a segment of DNA that codes for a specific protein, resulting in a particular trait  
 28. referring to one of a pair of chromosomes that carry the same genes in the same order on each chromosome  
 29. a chromosome other than a sex chromosome

30. the process during cell division in which the cytoplasm of a cell is divided between two new daughter cells

31. the period of the cell cycle in between cell divisional the time of regular growth and activity

## Down

1. one of two identical halves of a chromosome formed prior to cell division  
 2. the passing of traits from one generation to another  
 6. a type of inheritance in which different alleles of a gene are neither dominant nor recessive and are expressed simultaneously, resulting in a blended, usually intermediate phenotype  
 7. a condition in which more than two alleles for a gene are possible  
 8. the series of events, including duplication of DNA, leading to the division of a cell into two daughter cells  
 9. traits coded for by a gene located on a sex chromosome  
 12. a structure consisting of DNA and supporting proteins, usually found in a cell's nucleus  
 13. a genetic cross that tests only one set of alleles  
 14. the physical expression of a trait in an organism

15. material that composes the chromosomes; consists of DNA, RNA, and protein

16. a heterozygous organism that expresses the normal form of a trait but carries the recessive gene for an undesirable form of the trait and can pass it on to its offspring

17. a characteristic that is expressed even in the presence of a recessive allele of the gene that codes for that characteristic

19. describes the condition of having the same two alleles for a gene at the same position on homologous chromosomes

20. chromosomes that determine whether an organism is male or female

21. a heredity chart that tracks the expression of a trait through several generations

25. the genetic makeup of an individual organism, especially regarding its particular combination of alleles for a specific trait

27. one pair of genes that have the same position on homologous chromosomes and code for the same trait, though each may code for a different form of the trait