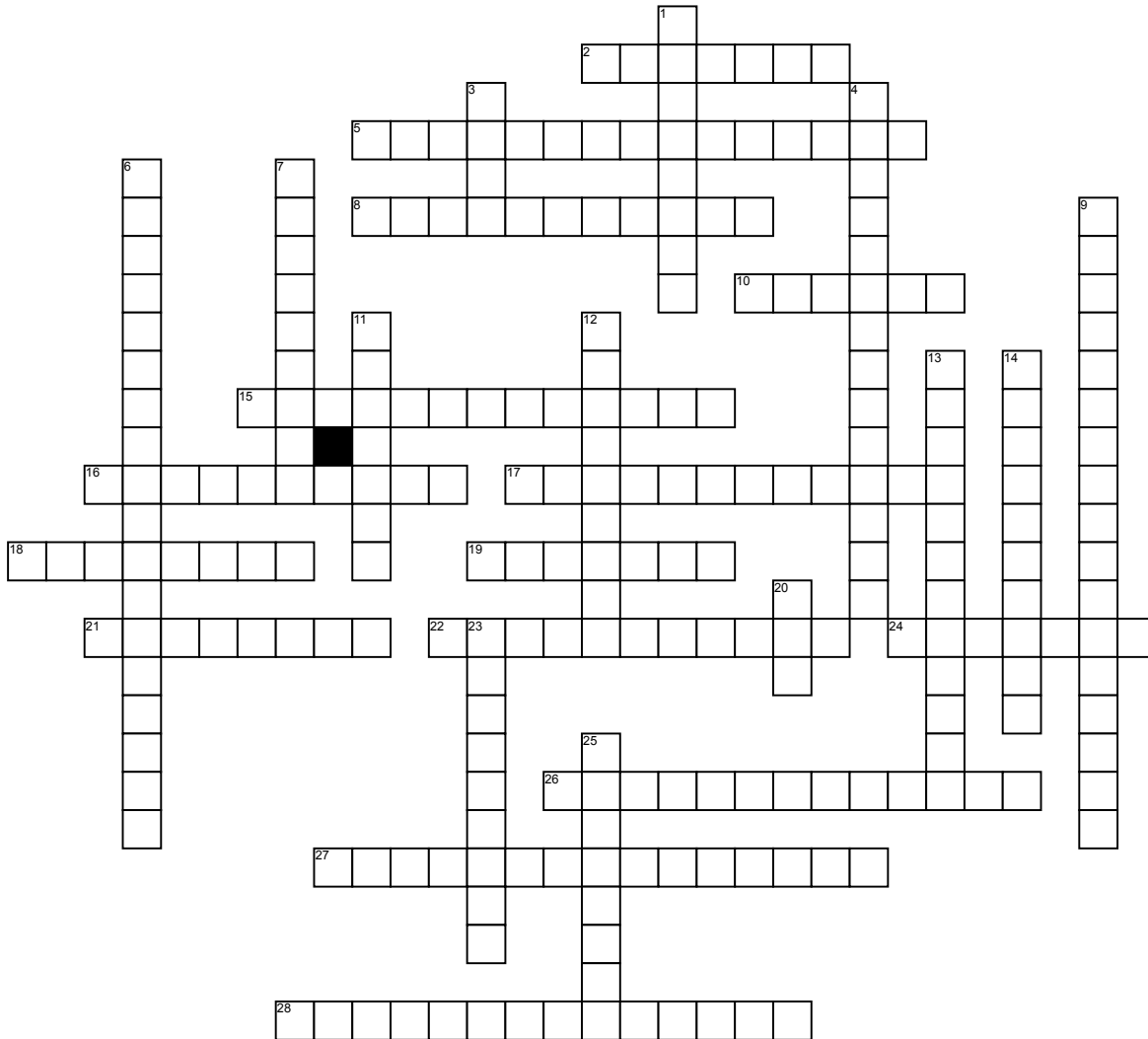


Gene Crossword



Across

2. An organism that has exactly the same genes as the organism from which it was produced.
5. a genetic problem caused by one or more abnormalities formed in the genome.
8. Inserting copies of a gene directly into a person's cells
10. The offspring of two plants or animals of different species or varieties
15. Breeders cross genetically different individuals.
16. Crossing two individuals that have similar characteristics
17. An organism that has two different alleles for a trait.
18. A chart that tracks which member of a family have a particular trait
19. The process by which the number of chromosomes is reduced by half to form sex cells.
21. The genetic constitution of an individual organism.
22. Carries amino acids to the ribosome and adds them to the growing protein.

24. All the DNA in one cell of an organism.

26. A chart that shows all the possible combinations of alleles that can result from a genetic cross.

27. Three or more forms of a gene that code for a single trait

28. Alleles passed from parents to child on a sex chromosome

Down

1. Have a commanding influence on; exercise control over.
3. A unit of heredity which is transferred from a parent to offspring and is held to determine some characteristic of the offspring.
4. A chromosome involved with determining the sex of an organism, typically one of two kinds.
6. Genes from one organism are transferred into the DNA of another organism
7. The set of observable characteristics of an individual resulting from the interaction of its genotype with the environment.
9. The process of selecting organisms with desired traits to be parents of the next generation.

11. Only females can be this. A person who has one recessive allele for a trait and one dominant allele for the same trait.

12. A change that occurs in our DNA sequence, either due to mistakes when the DNA is copied or as the result of environmental factors such as UV light and cigarette smoke.

13. Copies the code message from the DNA in the nucleus, and carries the message to the ribosome in the cytoplasm

14. A particular gene that has identical alleles on both homologous chromosomes.

20. Molecule composed of two chains that coil around each other to form a double helix carrying the genetic instructions used in the growth, development, functioning, and reproduction of all known organisms and many viruses.

23. Relating to or denoting heritable characteristics controlled by genes that are expressed in offspring only when inherited from both parents

25. An animal bred from parents of the same breed or variety.