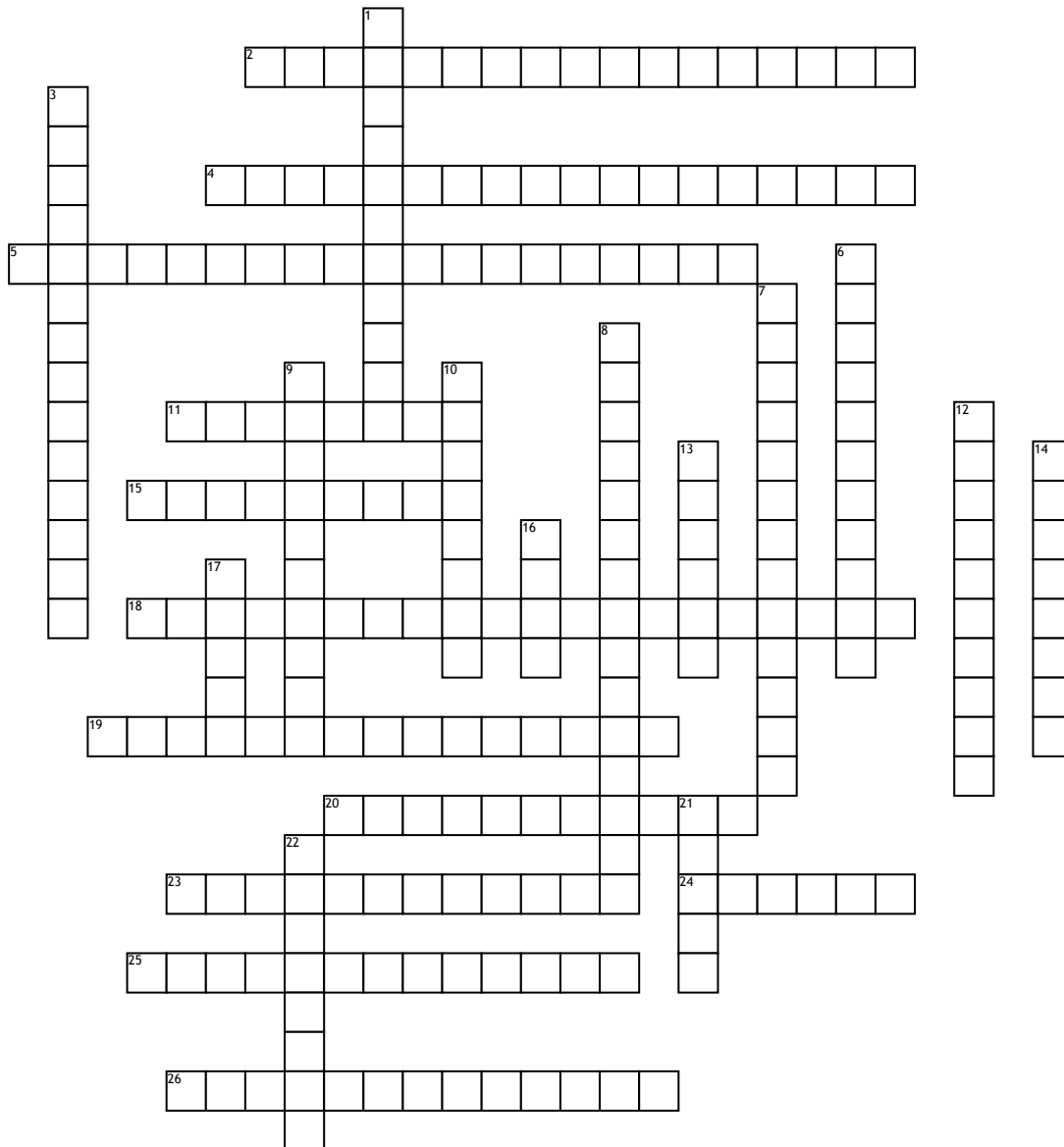


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Genetics



## Across

2. a process used by humans to develop new organisms with desirable characteristics
4. the process of using recombinant DNA technology to alter the genetic makeup of an organism
5. when a dominant allele does not completely mask the effects of a recessive allele and the resulting physical appearance shows a blending of both alleles
11. the genetic constitution of an individual organism
15. the set of observable characteristics of an individual resulting from the interaction of its genotype with the environment
18. occurs when one characteristic is controlled by two or more genes
19. the effect of the other allele; not expressed
20. the likelihood of something occurring
23. having two different alleles of a particular gene(s)

24. one of two or more alternative forms of a gene that arise by mutation and are found at the same place on a chromosome
25. a square diagram used to calculate and depict all the combinations and frequencies of the different genotypes and phenotypes among the offspring of a cross

26. the action or process of fertilizing an egg, female animal, or plant, involving the fusion of male and female gametes to form a zygote

## Down

1. an experimental technique that used genes to treat or prevent disease
3. refers to the relationship between two versions of a gene; if the alleles of a gene are different, the allele that is expressed is the dominant gene
6. the relationship between two versions of a gene
7. the process of an animal or plant breeding with an individual of another species or variety

8. three or more possible alleles for one individual trait

9. having two identical alleles of a particular gene(s)

10. the study of heredity and the variation of inherited characteristics

12. breed from closely related people or animals

13. the offspring of two plants or animals of different species or varieties

14. bred from parents of the same breed or variety

16. a unit of heredity which is transferred from a parent to offspring and is held to determine some characteristic of the offspring

17. an organism or cell produced asexually from one ancestor or stock to which they are genetically identical

21. a distinguishing quality or characteristic

22. the passing on of physical or mental characteristics genetically from one generation to another