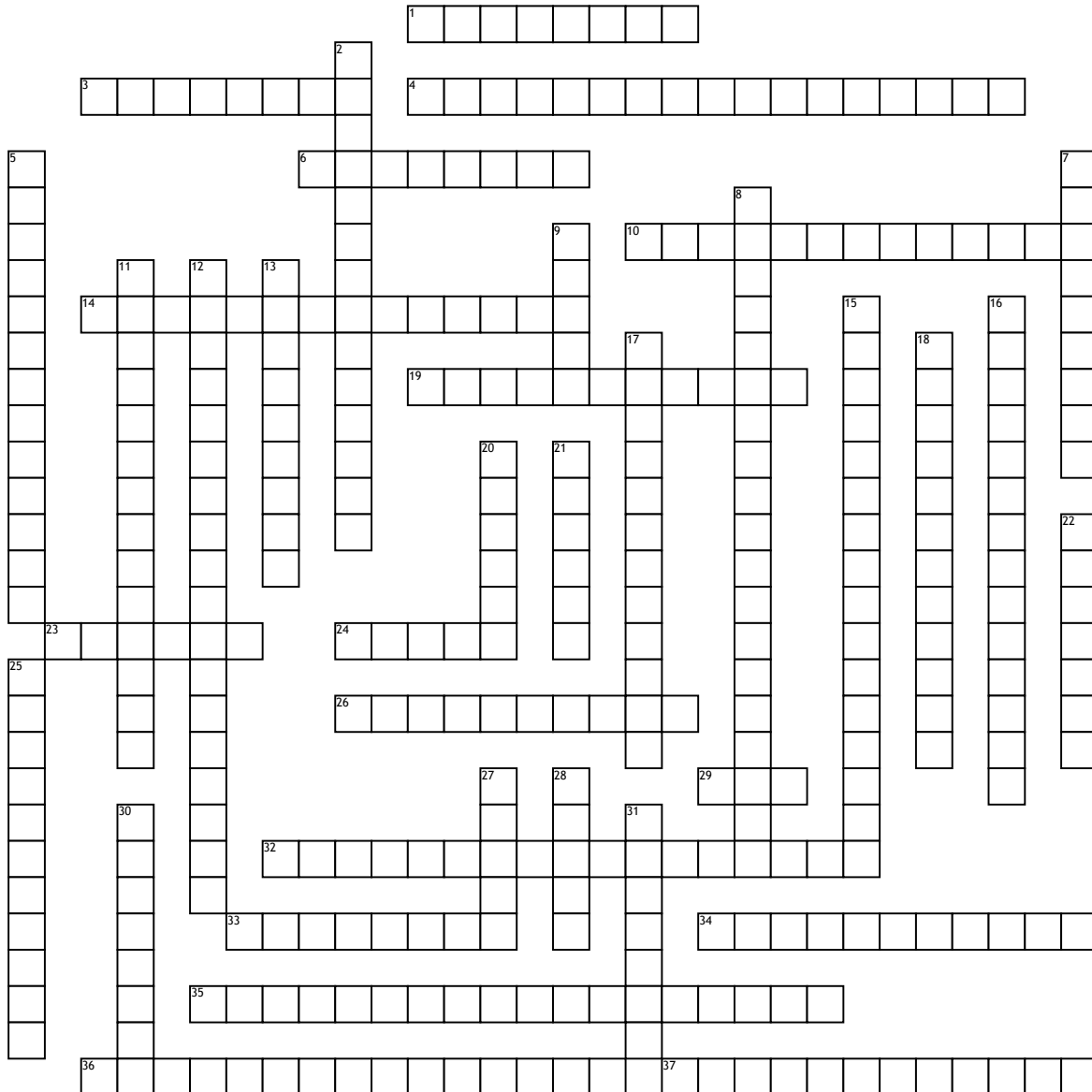


Name: \_\_\_\_\_

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

# Heredity and Genetics



## Across

1. Has two identical alleles for the same trait
3. When a chromosome is not copied correctly
4. Only mating organisms with desirable traits
6. Chart that tracks a particular trait in a family
10. Chart that shows all possible combinations of alleles between two organisms
14. Adenine and Thymine; Guanine and Cytosine
19. Insertion of a corrected gene into a person to try and correct a problem
23. Different forms of genes
24. An organism that is genetically identical to the parent organism
26. Two identical alleles
29. The molecule that is the Base of all chromosomes
32. Neither allele is dominant
33. Passing of traits from parent to offspring

34. Long strands of DNA that contain thousands of genes

35. Transferring a gene from one organism to another to produce a new trait
36. Only see this trait if two are present
37. 23 pairs or 46 chromosomes

## Down

2. Trait totally controlled by your genes
5. Gene that is on the x or Y chromosomes
7. The visibility expressed trait
8. The dominant alleles mix
9. Characteristic caused by genetics or the environment
11. Always shows its trait
12. A gamete from each parent gives one allele for each trait to make a new organism
13. Picture of all the chromosomes of a cell
15. Illnesses or disorders caused by an abnormal gene

16. Two scientists who first described the DNA double-helix molecule

17. Two different alleles
18. A monk in the 1850's that studied how plants inherit traits
20. All the DNA in one cell of an organism
21. Has two different alleles for the same trait
22. Process that creates sex cells with one copy of each gene or half the number of chromosomes
25. Likelihood that an event will occur
27. Human chromosomes that determine gender
28. Part of chromosomes that control a trait
30. The allele combination for a trait
31. Someone who has one recessive allele for a trait but doesn't show it