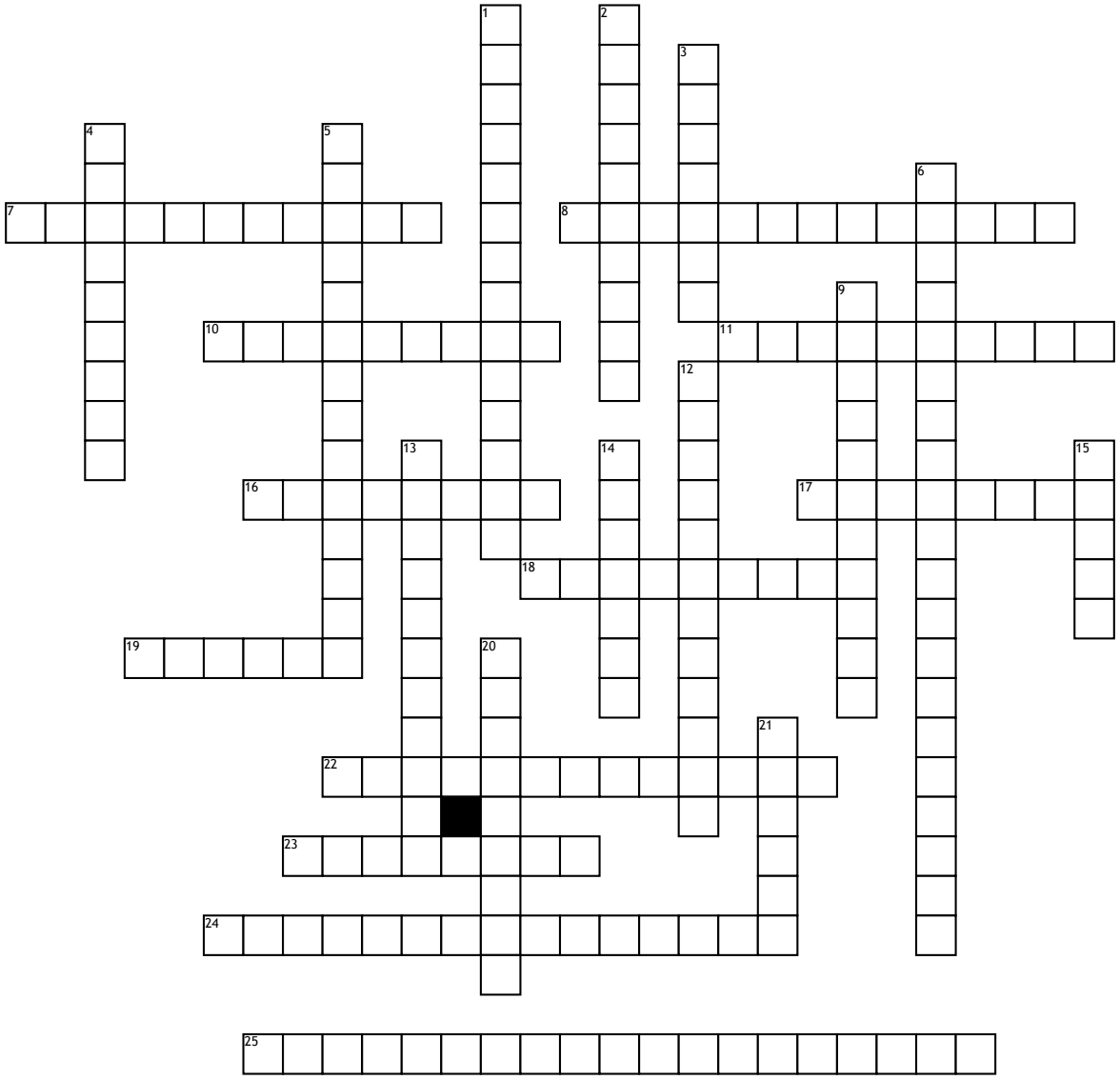
Name: _____ Date: _____

Genetics Crossword



Across

7. The structure of long strands of DNA in the nucleus of most living cells, carrying genetic information in the form of genes. These make an "X" or "Y" shape.

8. The gene whose phenotype or physical appearance can "overpower" the presence the opposing gene.

10. Non-sex chromosomes

11. A gene with the same alleles.

16. Protein molecules around which DNA is tightly coiled in chromatin.

17. A particular gene or set of genes carried by an individual.

18. An organisms visible characteristics or traits, such as brown eyes or curly hair.

19. In humans, each cell contains this many chromosomes for a total of 46.

22. A graphical representation used to determine the probability of expressed traits of offspring.

23. The passing on of physical or mental characteristics genetically from one generation to another.

24. The biological features or qualities individuals inherit from their biological parents.

25. Situation in which one allele is not completely dominant over another allele.

Down

1. This gene is typically hidden in the presence of a dominant gene. This gene can only be expressed when two copies of itself are present.

2. The place at which chromosomes become attached.

3. Base that pairs with Thymine

4. Clusters of DNA, RNA, and proteins in the nucleus of a cell.

5. The same place (locus) on the same gene from both the mother and the father.

6. This is a molecule that encodes an organism's genetic blueprint.

9. The shape of the DNA molecule.

12. A gene with two different alleles.

13. A condition in which both alleles for a gene are fully expressed.

14. The paired traits of a gene; one considered heterozygous and the other homozygous.

15. These are sections of DNA that act as instructions that determine characteristics of offspring.

20. A characteristic that is passed from parent to offspring is known to be this.

21. The specific outcome of a characteristic, such as blue eyes or blonde hair.