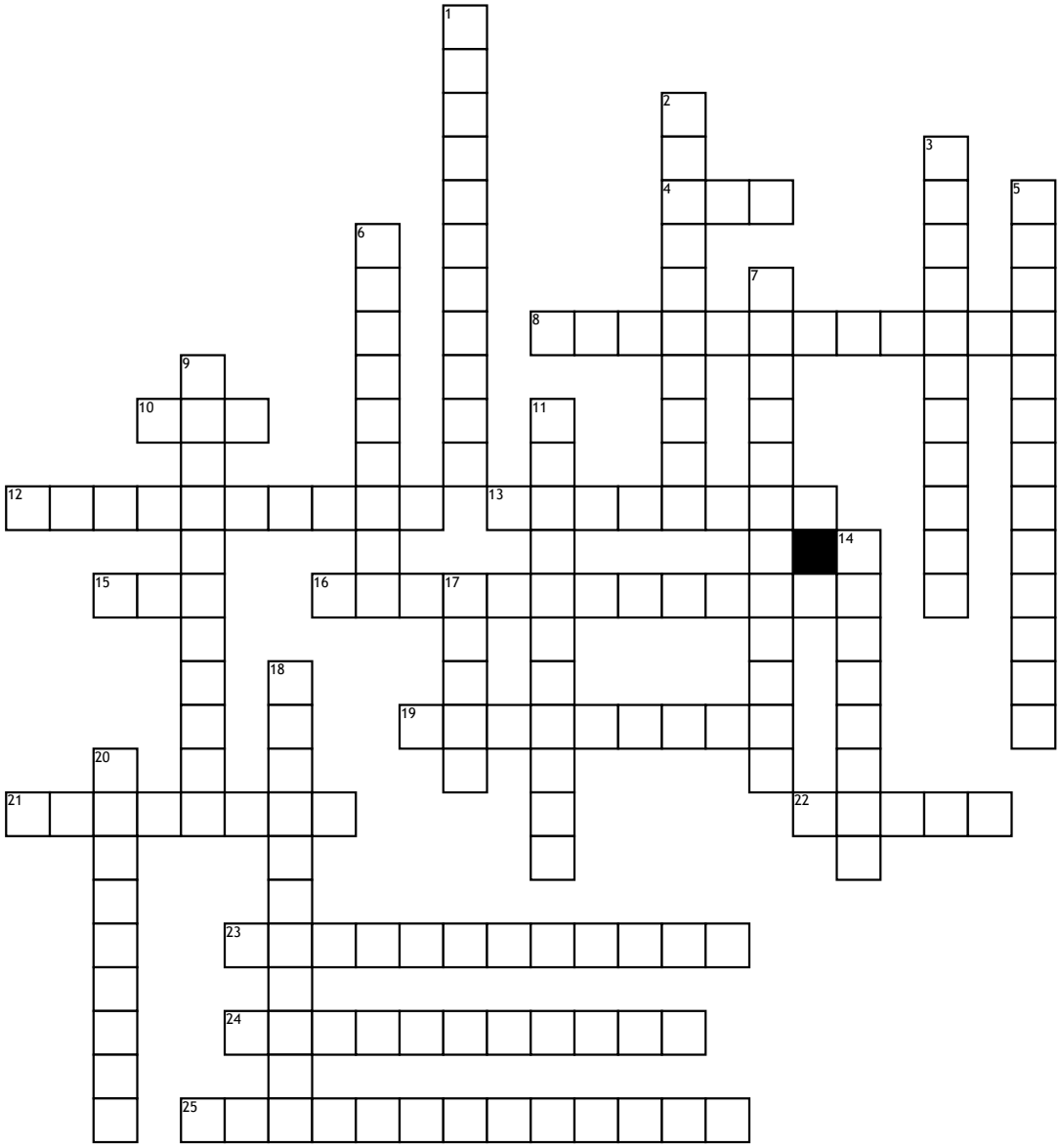
Name: _____ Date: _____ Period: _____

Mutations Review



Across

4. the start codon

8. one nucleotide replaces another.

10. Stop codon

12. A, C, G, and T in DNA; A, C, G, and U in RNA

13. may be induced by mutagens

15. can leave the nucleaus

16. major enzyme involved in replication

19. a chromosomal segment breaks off and flips around backwards

21. agents in the environment that can cause a change in DNA

22. a three-nucleotide sequence that encodes an amino acid or signifies a start signal or a stop signal

23. the type of RNA that is converted to a protein during translation

24. the process that makes a polypeptide

25. one piece of chromosome breaks off and reattaches to a nonhomologous chromosome.

Down

1. the process of making a copy of DNA

2. caused by the insertion or deletion of nucleotides in DNA

3. a segment of the chromosome doubles.

5. process that involves RNA polymerase

6. complementary to an mRNA codon

7. component of ribosomes

9. the rules that explain how nucleotides interact with each other

11. three-dimensional model developed by Watson and Crick

14. is the loss of a piece of chromosome due to breakage.

17. a mutation in a single nucleotide in DNA

18. carries an amino acid from the cytoplasm to a ribosome

20. halts translation