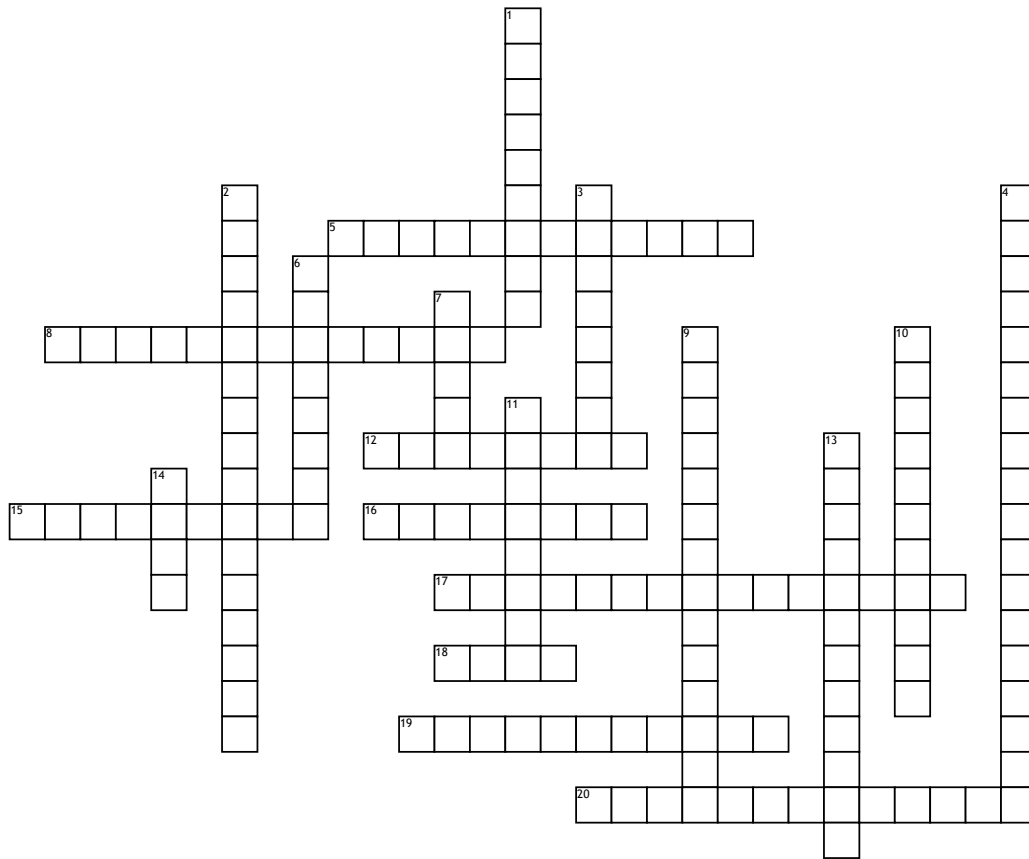


Name: \_\_\_\_\_

# Mutation Vocabulary Review



## Across

5. Type of replication error during DNA replication which places the wrong nucleotide or sequence of nucleotides in the wrong position.

8. A mutation when a single base pair is altered. This can result in a silent mutation, nonsense mutation or missense mutation.

12. Occurs when the sequence of nucleotides in DNA is changed in a way that stops the normal sequence of amino acids in the final protein.

15. Mutation which extra base pairs are inserted into DNA sequence.

16. Point mutation in which single nucleotide is changed, resulting in a codon that codes for a different amino acid.

17. Branch of agriculture where animals are reared, bred and raised for meat, fiber, eggs, milk and other food products.

18. Molecules that act as temporary carriers of amino acids, bringing the appropriate amino acids to the ribosome based on the (mRNA).

19. The act or process of duplicating or repeating a region in the genetic material or chromosome, as in gene duplication and chromosomal duplication.

20. A chromosomal segment is moved from one position to another, either within the same chromosome or to another chromosome.

## Down

1. A mutation that literally flips a segment of a chromosome.

2. Process whereby a genetically modified organism is made in the laboratory.

3. Chemical agents that increase the rate of genetic mutation by interfering with the function of nucleic acids.

4. Insertions or deletions in the genome that are not in multiples of three nucleotides.

6. A change in a DNA sequence

7. A sequence of three nucleotides which together form a unit of genetic code in a DNA or RNA molecule.

9. Occurs when chromosomes do not separate properly during cell division.

10. The transplantation of normal genes into cells in place of missing or defective ones in order to correct genetic disorders.

11. Mutation in which a selection of DNA is lost or deleted.

13. A change in the sequence of nucleotide bases which constitutes DNA, without a subsequent change in the amino acid or the function of the overall protein.

14. Transforms the information from DNA to the cell machinery that makes the proteins.

## Word Bank

Animal Husbandry  
Inversion  
tRNA  
Nondisjunction  
Gene Modification

Nonsense  
Substitution  
Duplication  
Codon  
Point Mutation

mRNA  
Frameshift Mutation  
Insertion  
Deletion  
Silent Effect

Mutation  
Missense  
Gene Therapy  
Translocation  
Mutagens