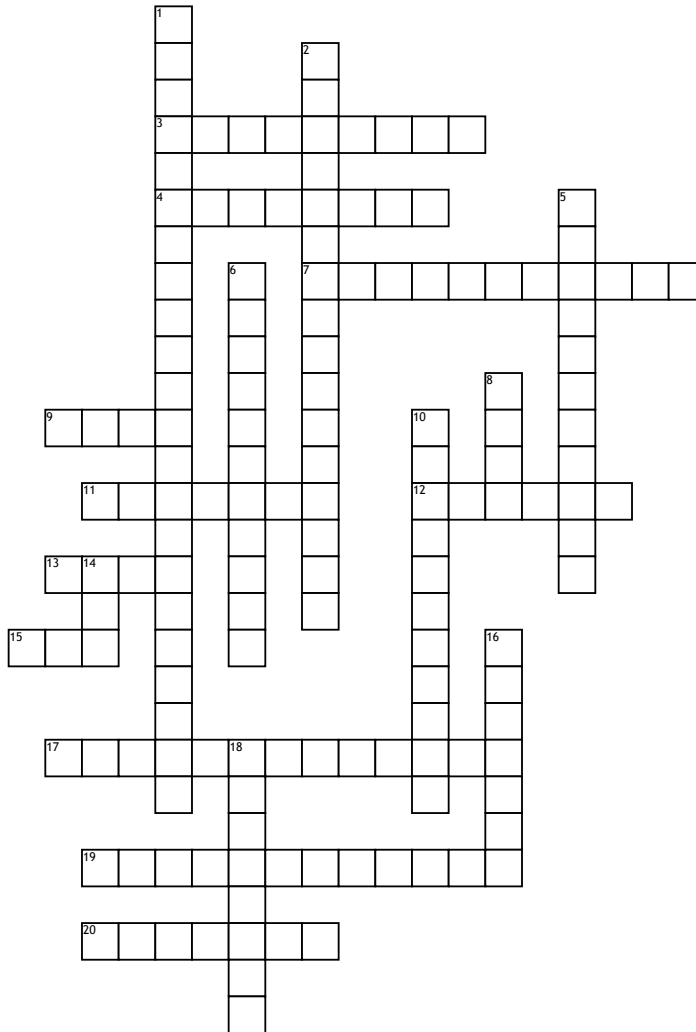


Name: _____

Genetics Crossword Puzzle



Across

3. a simple organic compound containing both a carboxyl ($-\text{COOH}$) and an amino ($-\text{NH}_2$) group.

4. any of a class of nitrogenous organic compounds that consist of large molecules composed of one or more long chains of amino acids

7. a complex organic substance present in living cells, especially DNA or RNA, whose molecules consist of many nucleotides linked in a long chain.

9.) is a type of RNA molecule that helps decode a messenger RNA (mRNA) sequence into a protein

11. a compound which is one of the four constituent bases of nucleic acids

12. a compound found in living tissue as a constituent base of RNA

13. a noncoding type of RNA that acts as the primary building block for ribosomes and the assembly line on which protein synthesis occurs

15. Deoxyribonucleic acid

17. the first of several steps of DNA based gene expression, in which a particular segment of DNA is copied into RNA by the enzyme RNA polymerase.

19. a nitrogen-containing molecule that has the same chemical properties as a base

20. a compound which is one of the four constituent bases of nucleic acids.

Down

1. an important structural component of DNA. It consists of 5-carbon deoxyribose sugars and phosphate groups.

2. the process in which cells make proteins.

5. the process in which ribosomes in the cytoplasm or ER synthesize proteins after the process of transcription of DNA to RNA in the cell's nucleus.

6. two chemical bases bonded to one another forming a "rung of the DNA ladder."

8. is a single-stranded RNA molecule that is complementary to one of the DNA strands of a gene

10. the structure formed by double-stranded molecules of nucleic acids such as DNA

14. Ribonucleic acid

16. a compound that occurs in guano and fish scales, and is one of the four constituent bases of nucleic

18. a compound found in living tissue as a constituent base of nucleic acids

Word Bank

Amino Acid

Adenine

Proteins

DNA

Guanine

Translation

Cytosine

rRNA

mRNA

Uracil

RNA

Transcription

Nitrogen Base

Thymine

Protein Synthesis

Sugar-Phosphate Backbone

tRNA

Double-Helix

Nucleic Acid

Base-Pairing