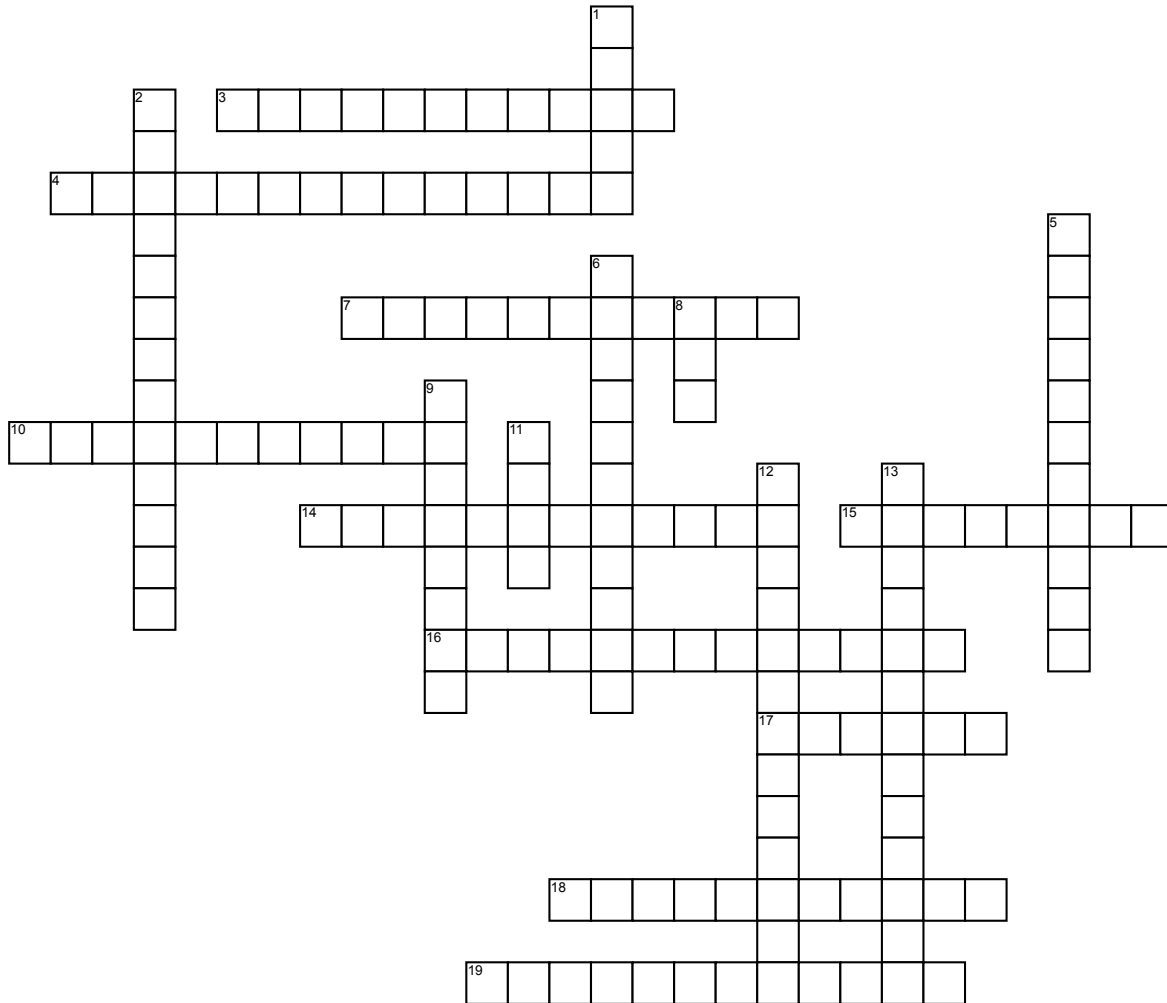


Name: _____ Date: _____ Period: _____

DNA and Protein Synthesis



Across

3. long chain of amino acids that makes proteins
 4. Process in which one strain of bacteria is changed by a gene or genes from another strain of bacteria
 7. type of RNA that carries each amino acid to a ribosome during protein synthesis
 10. collection of codons of mRNA
 14. type of RNA that combines with proteins to form ribosomes
 15. specific region of a gene where RNA polymerase can bind and begin transcription
 16. enzyme that links together the growing chain of RNA nucleotides during transcription using a DNA strand as a template

17. sequence of DNA that is not involved in coding for a protein
 18. principle that bonds in DNA can form only between adenine and thymine and between guanine and cytosine
 19. type of RNA that carries copies of instructions for the assembly of amino acids into proteins from DNA to the rest of the cell

Down

1. group of three nucleotide bases in mRNA that specify a particular amino acid to be incorporated into a protein
 2. principal enzyme involved in DNA replication
 5. processes by which the sequence of bases of an mRNA is converted into the sequence of amino acids of a base

6. processes of copying DNA prior to cell division
 8. single-stranded nucleic acid that contains the sugar ribose
 9. repetitive DNA at the end of a eukaryotic chromosome
 11. expressed sequence of DNA
 12. kind of virus that infects bacteria
 13. synthesis of an RNA molecule from a DNA template