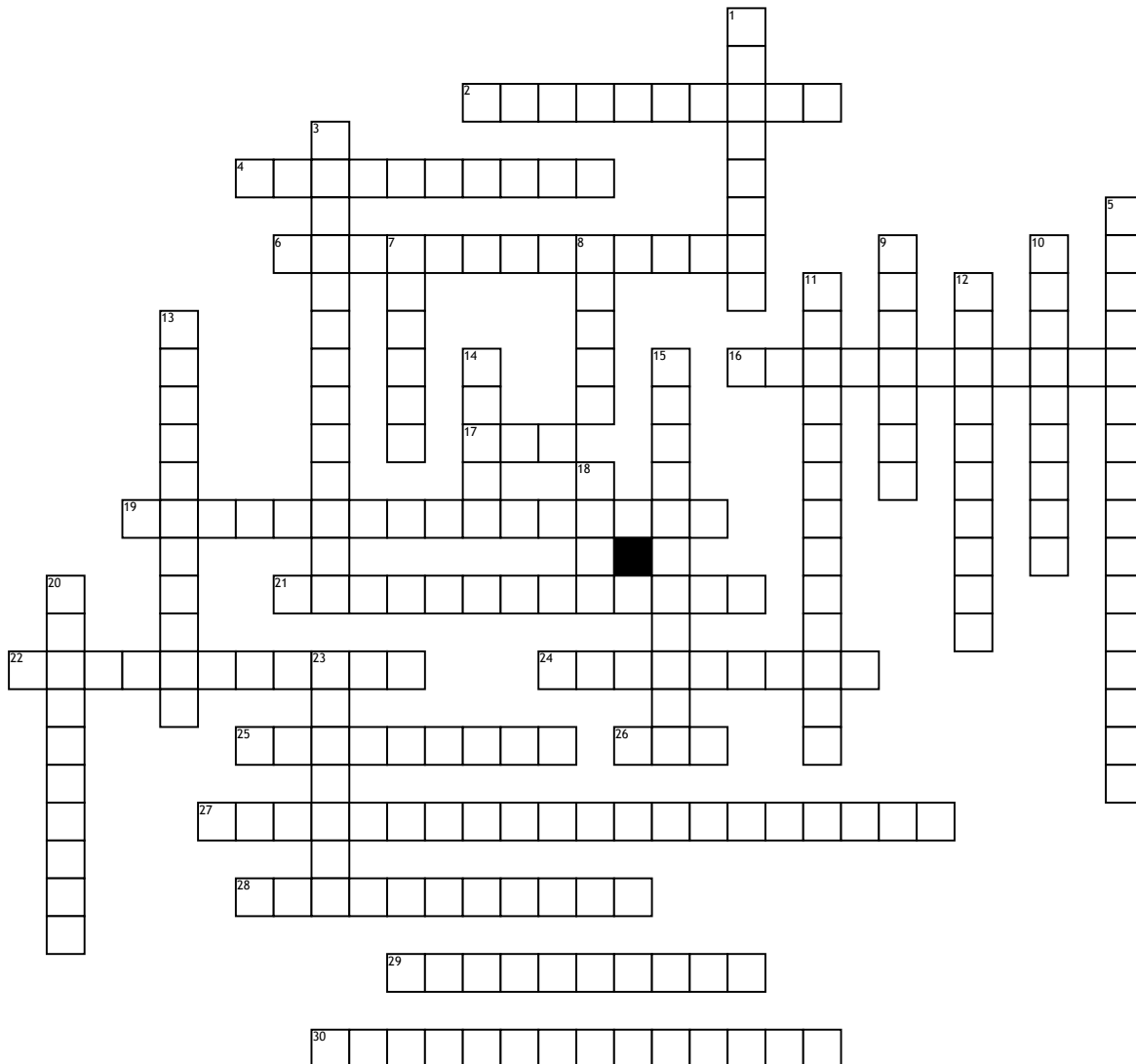


Name: _____

Date: _____

Dna and Rna



Across

2. term referring to the DNA wrapped up around the histones
 4. packed, coiled form of DNA for cell division
 6. enzyme that joins nucleotides to produce strands of DNA and proofreads
 16. mRNA language, bases read in groups of 3 and determine the amino acid needed
 17. deoxyribonucleic acid, molecule carrying genetic information that instructs the production of proteins and determines traits
 19. production of a protein
 21. enzyme used to copy DNA into mRNA
 22. second step in protein synthesis, mRNA is "read" by the ribosome and tRNA brings the correct amino acid to create the protein

24. group of 3 bases on tRNA that "check" for accuracy of amino acid by base pairing to codon on mRNA
 25. change in genetic material
 26. ribonucleic acid, aides in protein production
 27. changes in the whole chromosome
 28. the bonding pattern between the nitrogen bases
 29. the monomer, building block, that join to build DNA molecule
 30. type of gene mutation where a change is made at a single point

Down

1. area of DNA that signals enzyme of where to start copying
 3. first step in protein synthesis, DNA is copied into mRNA in the nucleus
 5. two identical copies of a chromosome attached

7. nitrogen base including adenine and guanine
 8. coded instructions for protein on DNA
 9. the protein DNA wraps around
 10. DNA wrapped with protein to shorten and fit into nucleus
 11. a change in the gene, (base)
 12. term referring to the DNA wrapped up around the histones
 13. 5 carbon sugar making up part of the nucleotide
 14. group of 3 bases on mRNA
 15. the copying of DNA for cell division
 18. section of DNA that are coded instructions to make a protein and determines a trait
 20. nitrogen base including thymine and cytosine
 23. non-coded instruction for protein on DNA