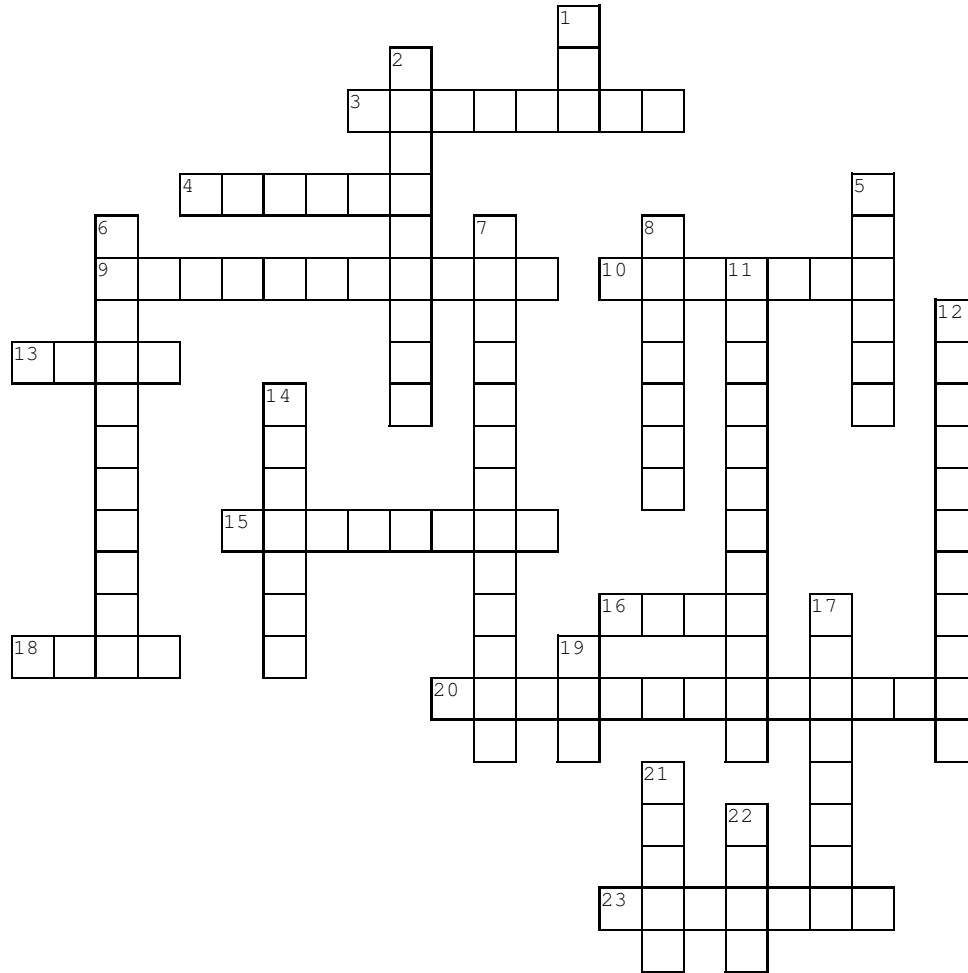


Name: _____

Chapter 5 - DNA and Modern Genetics



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Across

3. A mold, such as a hand in plaster
4. All the DNA of an organism
9. Process by which DNA is copied before it condenses into chromosomes
10. Amino acid molecules that control the chemical activity of a cell
13. The anti-codon RNA, complementary to mRNA
15. A chart that shows family relationships
16. Part of a nucleotide
18. RNA that makes up ribosomes
20. Process of transferring information from DNA to mRNA
23. Process of using DNA to produce a genetically identical offspring

Down

1. Genetic material found in all living cells
2. _____ breeding is the process of breeding plants and animals with specific traits to produce offspring with those traits
5. Group of disorders characterized by uncontrolled division of cells
6. mRNA codon to tRNA anticodon, forms a protein in the cytoplasm on a ribosome
7. Matching
8. The genetic code is a _____ code, a sequence of 3 nucleotide bases
11. _____ technology allows scientists to take a gene from one species and transfer it into DNA of an organism of another species
12. Cancer causing chemicals
14. _____ engineering is the scientific process in which DNA is separated from an organism, changed, and reinserted into the same or different organism
17. Any change made to DNA
19. Molecule that carries genetic information from DNA to a ribosome
21. First cloned mammal, a sheep
22. RNA that gets the code from DNA (codon)