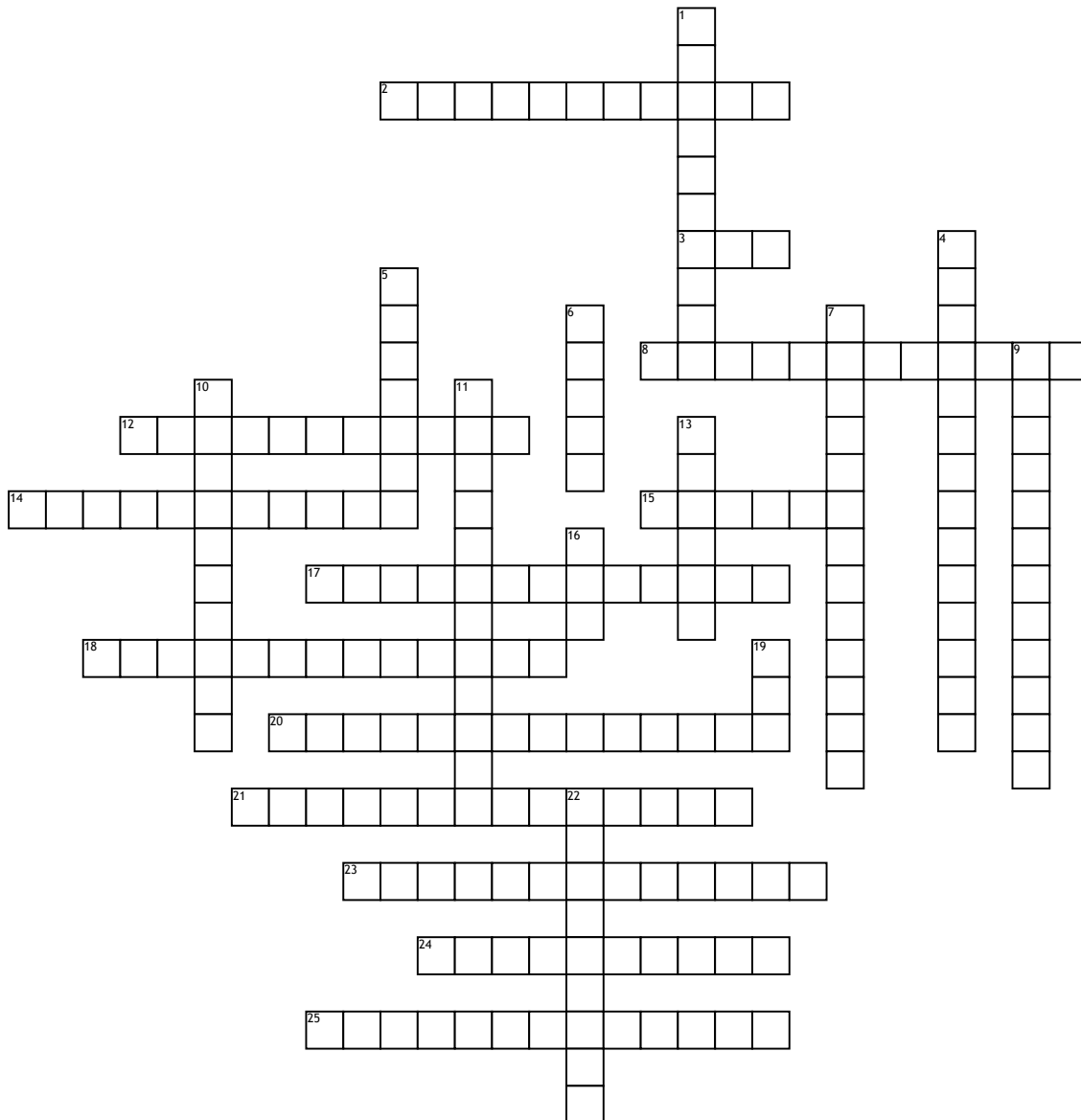


Name: _____

Date: _____

DNA



Across

- 2. a small RNA molecule, consisting of a strand of nucleotides folded into a clover-leaf shape"
- 3. double stranded nucleic acid
- 8. a single-stranded molecule of RNA that is synthesized in the nucleus from a DNA template and then enters the cytoplasm
- 12. model that compares the structure of a DNA molecule
- 14. the process by which a protein is synthesized from the information contained in a molecule of messenger RNA (mRNA)
- 15. a pyrimidine base, that is one of the fundamental components of RNA
- 17. a type of chemical bond in which a hydrogen atom that has a covalent link with one of the electronegative atoms
- 18. American biochemist. Discovered the key facts needed to determine the structure of DNA

- 20. unicellular organism that lacks a membrane-bound nucleus
- 21. a widely accepted model for the three-dimensional structure of DNA
- 23. the process by which genetic information on a strand of DNA is used to synthesize a strand of complementary RNA
- 24. a threadlike structure of nucleic acids and protein found in the nucleus of most living cells
- 25. A nucleic acid that carries the genetic information in cells and some viruses

Down

- 1. contain one carbon-nitrogen ring and two nitrogen atoms
- 4. rule that in DNA there is always equality in quantity between the bases A and T and between the bases G and C
- 5. class of nitrogenous organic compounds that consist of large molecules composed of one or more long chains of amino acids and are an essential part of all living organisms,

- 6. a unit of heredity that is transferred from one parent to an offspring
- 7. an enzyme that synthesizes the formation of RNA from a DNA template during transcription
- 9. a nitrogen-containing organic compound that has the chemical properties of a base
- 10. compound consisting of a nucleoside linked to a phosphate group
- 11. a type of RNA, distinguished by its length and abundance
- 13. a colorless crystalline compound with basic properties, forming uric acid on oxidation
- 16. deoxyribonucleic acid
- 19. ribonucleic acid
- 22. the material of which the chromosomes of organisms other than bacteria