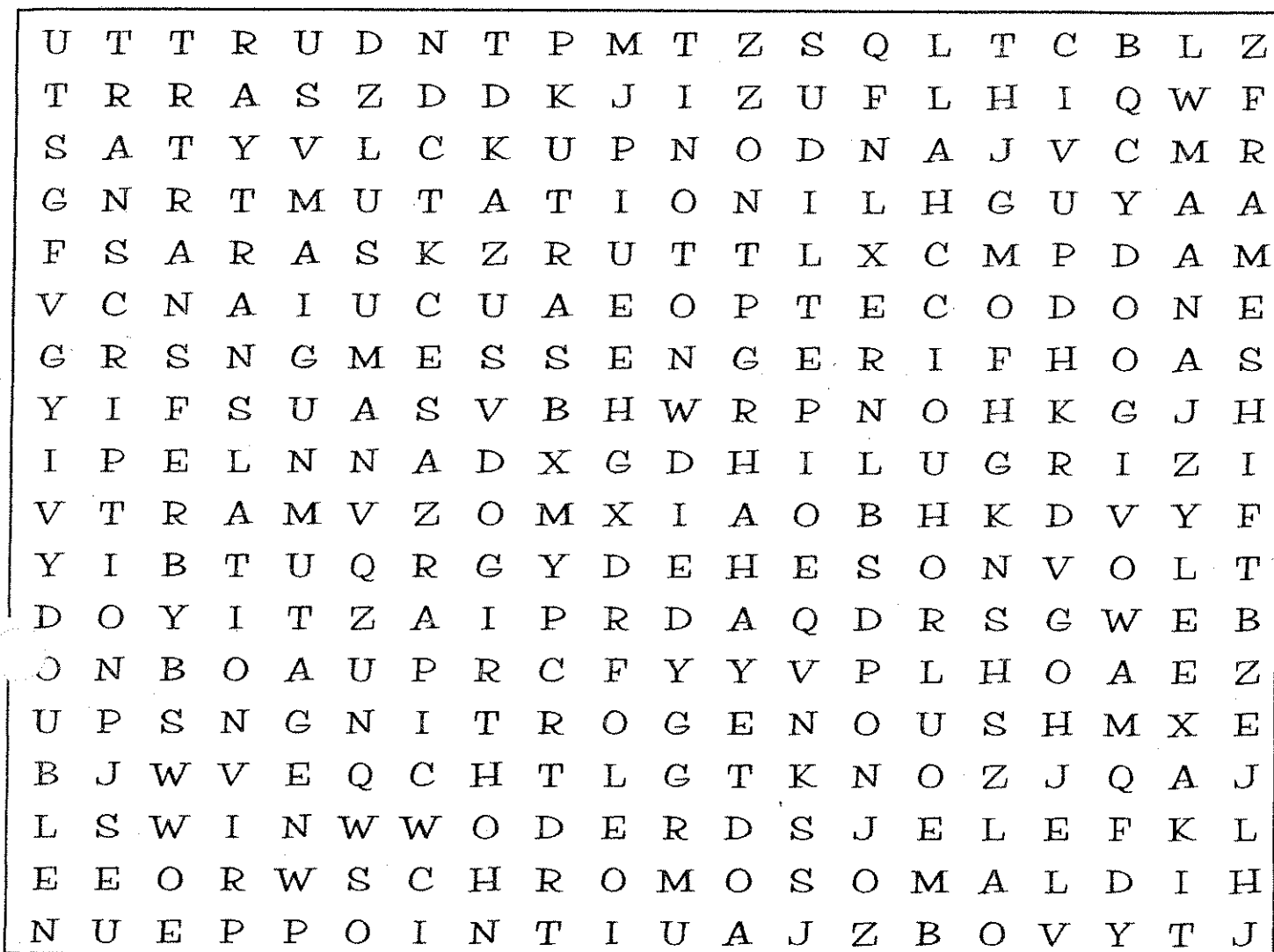


# Biology: The Dynamics of Life

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Instructions:** Complete the word search puzzle. Use the clues to help you identify the words.



## Clues

1. process of converting information in mRNA into a sequence of amino acids in a protein.
2. any change or random error in a DNA sequence.
3. any agent that can cause a change in DNA; includes high-energy radiation, chemicals, or high temperatures.
4. \_\_\_\_\_ replication: process in which chromosomal DNA is copied before mitosis or meiosis.
5. \_\_\_\_\_ base: carbon ring structure found in DNA or RNA that contains one or more atoms of nitrogen; includes adenine, guanine, cytosine, thymine, and uracil.
6. \_\_\_\_\_ RNA: RNA that transports amino acids to the ribosomes to be assembled into proteins.
7. \_\_\_\_\_ RNA: RNA that transports information from DNA in the nucleus to the cell's cytoplasm.

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8. \_\_\_\_\_ RNA: RNA that makes up the ribosomes; clamps onto mRNA and uses its information to assemble amino acids in the correct order.
9. \_\_\_\_\_ mutations: mutation that occurs at the chromosome level resulting in changes in the gene distribution to gametes during meiosis; caused when parts of chromosomes break off or rejoin incorrectly.
10. set of three nitrogen bases that represent an amino acid; order of nitrogen bases in mRNA determines the type and order of amino acids in a protein.
11. \_\_\_\_\_ helix: shape of a DNA molecule formed when two twisted DNA strands are coiled into a springlike structure and held together by hydrogen bonds between the bases.
12. process in the cell nucleus where enzymes make an RNA copy of a DNA strand.
13. \_\_\_\_\_ mutation: mutation that occurs when a single base is added or deleted from DNA; causes a shift in the reading of codons by one base.
14. \_\_\_\_\_ mutation: mutation in a DNA sequence; occurs from a change in a single base pair.