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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

DNA and RNA

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|  |  |  |  |  |  |  |  |  |  | 1  G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 2  M | R | N | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | E |  |  |  |  |  |  |  | 3  P |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 4  T | R | A | N | S | L | A | T | I | O | N |  | 5  C | O | D | O | N |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | I |  |  |  |  |  |  |  | L |  |  |  |  |  | 6  T |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | C |  |  |  |  |  | 7  D |  | Y |  |  |  |  |  | R |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 8  H |  | C |  |  |  | 9  M |  | N |  | P |  |  |  |  |  | A |  |  |  |  |  |
|  |  |  | 10  A | N | T | I | C | O | D | O | N |  | 11  M | U | T | A | G | E | N |  |  |  |  | N |  |  |  |  |  |
|  |  |  |  |  |  |  |  | M |  | D |  | 12  R |  | T |  | P |  | P |  | 13  T |  |  |  | S |  |  |  |  |  |
|  |  |  |  |  | 14  T | E | L | O | M | E | R | E |  | A |  | O |  | T |  | 15  R | N | A |  | F |  |  |  |  |  |
|  |  |  |  |  |  |  |  | L |  |  |  | P |  | T |  | L |  | I |  | A |  |  |  | O |  |  |  |  |  |
|  |  |  |  |  |  |  | 16  P | O | L | Y | P | L | O | I | D | Y |  | D |  | N |  |  |  | R |  |  |  |  |  |
|  |  |  |  |  | 17  B |  |  | G |  |  |  | I |  | O |  | M |  | E |  | S |  |  |  | M |  |  |  |  |  |
|  |  |  |  | 18  H | A | P | L | O | I | D |  | C |  | N |  | E |  | S |  | F |  |  |  | A |  |  |  |  |  |
|  |  |  |  |  | C |  |  | U |  |  |  | A |  |  |  | R |  |  |  | E |  |  |  | T |  |  |  |  |  |
|  |  |  |  |  | T |  |  | S |  |  |  | T |  | 19  T | R | A | N | S | C | R | I | P | T | I | O | N |  |  |  |
|  |  |  |  |  | E |  |  |  |  |  |  | I |  |  |  | S |  |  |  | R |  |  |  | O |  |  |  |  |  |
|  |  |  |  |  | R |  |  | 20  D | I | P | L | O | I | D |  | E |  |  |  | N |  |  |  | N |  |  |  |  |  |
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| **Across**  **2.** A type of RNA that carries copies of instructions for the assembly of amino acids into proteins from DNA to all cell part.  **4.** The cell uses information from mRNA to make proteins during \_\_\_\_\_\_\_\_\_\_\_\_\_ .  **5.** Each three base set of genetic code.  **10.** A group of three bases of tRNA molecule that are complementary to the three bases of condon of mRNA.  **11.** A chemical or physical agent in the environment that interacts with DNA and may cause mutation.  **14.** The tips of chromosomes.  **15.** A singled-stranded nucleic acid that contains the sugar ribose.  **16.** A condition in which an organism has extra set of chromosome.  **18.** A cell that contains only one set of genes.  **19.** The synthesis of an RNA molecule from a DNA template , or pattern.  **20.** A cell that contains two sets of homologous chromosomes. | **Down**  **1.** The language for naming RNA.  **3.** A long chains of amino acids that make proteins  **6.** The process in which one stain of bacteria is change by a gene or genes from another bacteria.  **7.** An enzyme that joins individual nucleotides to produce a new strand of DNA.  **8.** Chromosomes in which one set comes from male parent and another set comes from female parent  **9.** A change in the genetic material of cell  **12.** The process of copying DNA from DNA.  **13.** A type of RNA that carries each amino acid to form ribosomes.  **17.** A kind of virus that infects bacteria cell. |