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DNA, RNA, and Protein Synthesis!

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| **Across****3.**  Mutation that involves the insertion or deletion of a nucleotide in the DNA sequence.**6.** Gene mutation involving changes in one or a few nucleotides.**7.** \_\_\_\_\_ is a nucleic acid messenger between DNA and ribosomes. **12.** Two strands of nucleotides wound about each other; structure of DNA.**13.** Process in which cells become specialized in structure and function.**14.** One of the four nitrogen bases in DNA; pairs with Thymine in DNA and Uracil in RNA.**16.** One of the four nitrogen bases in DNA; pairs with cytosine. **19.** Process by which mRNA is decoded and a protein is produced.**20.** A building block of DNA, consisting of a five-carbon sugar bonded to a nitrogenous base and a phosphate group. | **Down****1.** Each \_\_\_\_\_\_\_\_\_\_\_\_\_ is made up of DNA tightly coiled many times.**2.** 1st process/step in protein synthesis; creates mRNA.**4.** There are 4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_in DNA; Thymine, Adenine, Guanine, Cytosine.**5.** A change in a gene or chromosome.**8.** Copying process by which a cell duplicates its DNA.**9.** One of the four nitrogen bases in DNA; pairs with guanine.**10.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is the assembly of amino acids (by RNA) into proteins. **11.** One of the four nitrogen bases in DNA; pairs with Adenine and is replaced by uracil in the molecule RNA.**15.** Cells uniquely suited to perform a particular function; specific.**17.** Control center of the cell that contains DNA.**18.** \_\_\_\_\_\_\_\_is the molecule of heredity meaning it allows information to be passed from generation to generation.  |