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

H: Crossword

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| **Across**  **4.** packed, coiled form of DNA  **9.** enzyme that joins nucleotides to produce strands of DNA and proofreads  **15.** ribonucleic acid  **18.** deoxyribonucleic acid  **19.** protein DNA wraps around  **20.** area where the 2 DNA copies are held together until split  **22.** nitrogen base including thymine & cytosine  **25.** type of gene mutation where a change is made at a single point  **26.** mRNA language, determines amino acid  **27.** change in genetic material  **28.** the copying of DNA  **30.** group of 3 bases on tRNA that "check" for accuracy of amino acid | **Down**  **1.** area of DNA that signals enzyme where to start  **2.** the monomer, building block in DNA  **3.** second step in protein synthesis  **5.** 2 indentical copies of a chromosome attached  **6.** a change in the gene (base)  **7.** enzyme used to copy DNA into mRNA  **8.** changes in the whole chromosome  **10.** DNA wrapped with proteins and fit into nucleus  **11.** production of a protein  **12.** first step in protein synthesis  **13.** the bonding pattern between the nitrogen bases  **14.** 5 carbon sugar making up part of the nucleotide  **16.** DNA wrapped around histone  **17.** section of DNA that is coded instructinons to make proteins  **21.** nitrogen base including adenine & guanine  **23.** non-coded instruction for protein on DNA  **24.** coded instructions forprotein on DNA  **29.** group of 3 bases on mRNA |