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Chapter 12 Vocab

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| **Across**  **3.** Regio of DNA that indicates to an enzyme where to bind to make RNA.  **7.** Particular segment of DNA is copied into RNA by the enzyme RNA polymerase  **11.** Condition in which an organism has extra sets of chromosomes.  **15.** Granular material visible within the nucleus.  **18.** Process in which cells become specialized in structure and function  **20.** Decoding of a mRNA message into a polypeptide chain.  **22.** Virus that infects bacteria.  **24.** Sequence of DNA that is not involved in coding for a protein.  **25.** Protein molecule around which DNA is tightly coiled in chromatin  **26.** Series of genes that controls the differentiation of cells nd tissues in an embryo.  **27.** Similar to DNA polymerase, binds the DNA and seperates the DNA strands during trascription.  **28.** Interacts with a regulatory protein that controls the trascription of the operon. | **Down**  **1.** Change in DNA sequence that affects genetic information.  **2.** Three-nucleotide sequence on messanger RNA that codes for a single amino acid.  **4.** That shifts the reading frame of a genetic message by inserting or deleting a nucleotide.  **5.** Group of three bases on a tRNA molecule that are complementary to an mRNA codon.  **6.** Monomer of nuclic acid made up of a 5-carbon sugar.  **8.** Copying process by which a cell duplicates its DNA.  **9.** Are made of several dozens of protein.  **10.** Process in which one strain of bacteria is changed by a gene or genes from another strain of bacteria.  **12.** Enzyme involved in DNA replication.  **13.** Group of genes operating together.  **14.** Type of RNA molecule thath transfers amino acids to ribosomes during protein synthesis.  **16.** Gene mutation involving changes in one or a few nucleotides.  **17.** Principle that bonds with DNA.  **19.** Expressed sequence of DNA; codes for a protein.  **21.** Sequence of DNA that codes for a protein and thus determines a trait.  **23.** RNA molecule that carries copies of instructions. |