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| **Across**  **6.** a nucleotide of DNA or RNA; complementary to guanine  **8.** reproductive or sex cells such as sperm or ova  **10.** a subunit of a DNA molecule  **11.** the process that results in the formation of gametes with half the genetic material of the parent cell  **13.** study of inheritance  **14.** the process or replication that results in genetically identical daughter cells  **15.** DNA molecules have the appearance of a spiral ladder or double helix, a sugar–phosphate backbone or frame, and rungs or steps that are made up of nitrogenous bases joined together by hydrogen bonds.  **16.** involves the joining together of male and female reproductive cells (gametes)  **17.** a nucleotide of DNA; complementary to adenine  **18.** a characteristic that needs only one copy of an allele to appear in the physical appearance of an organism | **Down**  **1.** tiny thread-like structures inside the nucleus of a cell that contain the DNA that carries genetic information.  **2.** the sugar in the nucleotides that make up DNA  **3.** the sequence of nucleotides found in DNA that is inherited from parents  **4.** a molecule that contains all the instructions for every job performed by the cell; this information can be passed from one generation to the next  **5.** reproduction that does not involve fusion of sex cells (gametes)  **7.** a nucleotide base that pairs with its partner nucleotide on the alternative DNA strand. Adenine pairs with thymine, cytosine pairs with guanine  **9.** a nucleotide of DNA; complementary to thymine  **12.** a nucleotide of DNA or RNA; complementary to cytosine |