Mendelian Genetics

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| **Across**  **3.** process of interbreeding individuals from genetically distinct populations  **5.** genetic cross between a homozygous recessive individual and corresponding heterozygote to determine the heterozygote’s genotype (PP x pP)  **10.** pair of matching alleles for a trait  **13.** genes where one is dominant and one is recessive  **15.** variation in hereditary factors for independent characteristics  **18.** hybrid that is heterozygous for alleles of two different genes  **19.** parental generation  **21.** a variant form of a gene  **22.** during the production of gametes the two copies of each hereditary factor separate so that offspring acquire one factor from each parent  **23.** mating between two individuals with different alleles for one trait | **Down**  **1.** result of a cross between two F1 individuals  **2.** cross between two different alleles that differ in two observed traits  **4.** the generation resulting immediately from a cross of the first set of parents  **6.** set of observable characteristics of an organism  **7.** mating between two individuals with different alleles for one trait  **8.** no effect on appearance  **9.** diagram used to predict an outcome of a particular cross or breeding experiment  **11.** genetic constitution of an individual organism  **12.** a hybrid that is heterozygous with respect to a specified gene  **14.** determines the appearance  **16.** specific characteristic of an organism  **17.** an organism that passes down certain phenotypic traits to its offspring  **20.** any observable feature |