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 |