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Genetics Crossword Puzzle

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| **Across**  **2.** traits that are controlled by a group of nonallelic genes  **5.** ancestral lines or charts depicting the lineage or descent of an individual  **8.** the genotype of an individual with 2 recessive of dominant alleles  **10.** genes that are closer together on the chromosome are more likely to be inherited together  **14.** containing two complete sets of chromosomes, one from each parent  **20.** having a single set of unpaired chromosomes  **21.** Cell division process that forms gametes  **22.** determines the physical appearance of an individual  **24.** the exchange of chromosome segments between homologous chromosomes  **25.** the more powerful gene  **27.** one of a pair of genes that appear at a particular location on a particular chromosome and control the same characteristic  **28.** the less powerful gene  **29.** uses a Punnett Square to observe the possible outcomes and probabilities for two traits  **30.** genetic makeup of an individual  **31.** determine sex or gender | **Down**  **1.** uses a Punnett Square to observe the possible outcomes and probablilities for one trait  **3.** a unit of heredity that is transferred from a parent to offspring and is held to determine some characteristic of the offspring  **4.** Organisms inherit two copies of each gene, one from each parent. Organisms donate only one copy of each gene in their gametes  **6.** allele pairs seperate independently of each other during gamete formation  **7.** pairs of chromosomes that have similar genetic information  **9.** the phenotype is somewhere between the two traits  **11.** both traits are fully expressed  **12.** the genotype of an individual with one dominant and one recessive allele  **13.** genes located in the sex chromosome  **15.** the extent to which an event is likely to occur  **16.** determine all traits except gender  **17.** a grid system that is used to predict all possible genotypes resulting from a cross  **18.** genetically determined characteristics  **19.** sex cells  **23.** a person or other organism that has inherited a recessive allele for a genetic trait or mutation but does not display that trait or show symptoms of the disease  **26.** a genetic cross between a homozygous recessive individual and a corresponding suspected heterozygote to determine the genotype of the latter |