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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 |