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Genetics

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| **Across****2.** A unit of heredity that is transferred from a parent to offspring and is held to determine some characteristic of the offspring.**4.** One whose phenotype is influenced by more than one gene.**9.** Situation in which one allele is not completely dominate over another.**11.** Diagram showing the relative locations of each known gene on a particular chromosome.**15.** The record of descent of an animal, showing it to be purebred.**16.** A diagram that is used to predict an outcome of a particular cross or breeding experiment.**19.** Gene located on the X or Y chromosome.**21.** Specific characteristic that varies from one individual to another.**22.** One or two chromosomes that determine an individual's sex.**24.** photograph of chromosomes grouped in order of pairs.**25.** Process of which the number of chromosomes per cell is cut in half through the separation of homologous chromosomes in a diploid cell.**26.** Situation in which both alleles of a gene contribute to phenotype of the organism. | **Down****1.** The genetic constitution of an individual organism.**3.** Any chromosome that is not a sex chromosome.**5.** Expressed or seen when a heterozygous.**6.** Separation of alleles during gamete formation.**7.** Three or more alleles of the same gene.**8.** Scientific study of heredity.**10.** Term used to refer to an organism that has two different alleles from the same trait.**12.** Term used to refer to chromosomes that each have a corresponding chromosome from the opposite sex parent.**13.** One, two, or more alternative forms of a gene that arise by mutation and are found at the same place on a chromosome.**14.** Relating to or denoting heritable characteristics controlled by genes that are expressed in offspring only when inherited by both parents.**17.** error in meiosis in which homologous chromosomes fail to seperate.**18.** The set of observable characteristics of an individual resulting from the interaction of its genotype with the environment.**20.** A measure of the likelihood of something occurring or the chance of something happening.**23.** Offspring of crosses between parents with different traits. |