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~ Genetics Vocabulary ~

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| **Across**  **2.** An organism that has two identical alleles for a trait (hh, TT, gg)  **4.** Passing of traits from parents to offspring  **7.** An individual's observable trait (brown hair, blue eyes, etc.)  **12.** A chart or "family tree" that tracks which members of a family have a particular trait  **13.** A person whose genotype includes a gene that is not expressed in the phenotype.  **14.** An allele that is only expressed in the phenotype if there is not a dominant allele in the genotype it is said to be \_\_\_\_\_\_\_.  **15.** Allele make-up of a person; you cannot see this (ex: PP or Pp or pp)  **16.** Different forms of a gene  **18.** both alleles in a heterozyous pair individually contribute to the phenotype. Instead of a blend of the phenotype the pair has a different phenotype.  **19.** Study of traits, genes and heredity | **Down**  **1.** An allele or a gene that is expressed in an organism's phenotype, masking the effect of the recessive allele or gene when present.  **3.** The condition where both alleles are partially expressed in a BLENDED appearance of the trait.  **5.** trait shown in phenotype  **6.** Father of genetics  **8.** A number with a value from 0 to 1 that describes the likelihood that an event will occur. For example, if a bag contains a red marble, a white marble and a blue marble then the probability of selecting a red marble is 1/3.  **9.** A chart used to show all the ways genes from two parents can combine and be passed to offspring; used to predict all genotypes that are possible  **10.** an expression that compares two quantities (1/4 or 3:4)  **11.** One step in the line of descent of a family  **17.**  Segments of DNA on chromosomes that code for specific traits |