

## GENETICS VOCABULARY:

Word	Definition
1) Gregor Mendel	The Austrian monk who discovered the modern science of <i>genetics</i> . His experiments with pea plants created the rules of <u>heredity</u> .
2) Trait	A specific characteristic of an individual: seed color or plant height.
3) Allele	A different form of a gene.
4) Homozygous	Two identical alleles for a particular gene: TT or tt.
5) Heterozygous	Two different alleles for the same gene: Tt .  An individual with one dominant and one recessive allele for a gene will have the dominant phenotype.
6) Genotype	The genetic makeup of an organism
7) Phenotype	The physical traits of an organism. Greek: "to show"
8) Dominant	Inheriting a dominant allele from one parent produces a dominant phenotype, which masks the recessive trait.
9) Recessive	Two copies of a recessive allele, one from each parent, must be inherited to produce a recessive phenotype.
10) Punnett Square	A diagram that can be used to predict the genotype and phenotype of a genetic cross.

