

Genetics Terms

genotype-refers to the actual genes the organism has

ex: Tall pea plants might be TT or Tt

short pea plants must be tt since Tall is dominant

phenotype-the actual observable trait

ex: either Tall or short

homozygous-containing two genes of the same type

heterozygous-contains two genes of a different type

alleles-the form of the gene present in the individual.

ex: T is one allele for stem length, t is the other

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Single Trait Inheritance

monohybrid crosses-a cross involving only one characteristic
uses a Punnet Square

	T	T
T	TT	Tt
t	Tt	tt

Example

cross a heterozygous Tall pea plant with a homozygous pea tall plant

100% of the plants 'appear' tall!

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