

## GENETICS TERMS -

**Heredity** - The transmission of characteristics from parents to offspring; controlled by the paired chromosomes.

**Meiosis** - Genes for a trait come in pairs; TT, Tt, or tt. They separate during meiosis, one gene of the pair goes to one gamete, or sex cell.

**Dominant** - The form of a trait which is expressed.

**Recessive** - The hidden form of a trait only expressed if in pairs. (tt)

**Hybrid** - One dominant and one recessive gene. (Tt)

**Homozygous** - When paired genes for a trait are identical. (TT or tt)

**Heterozygous** - When paired genes for a trait are different. (Hybrid) (Tt or Rr)

**Phenotype** - The actual effect genes play on the organism. Their appearance; tall or short; red or white.

**Genotype** - The actual gene make-up for a trait designated in pairs; TT or Tt.

### **Punnett Square:**

**P<sub>1</sub>** - Refers to parent plant.

**F<sub>1</sub>** - First filial; first generation from a P<sub>1</sub> cross.

**F<sub>2</sub>** - Second filial; a cross between offspring in F<sub>1</sub> cross.