

## Mendel's Experiments and Heredity

**Genetics** - the study of inheritance (heredity)

→ how parental traits are passed to their offspring

**Gregor Mendel**

→ Lived 1822-1884

→ "father of genetics"

→ Foundation for modern-day genetics (through his discoveries that involved P1 & F2 generations)

→ Pea plant experiments: focused on patterns of inheritance & basis for the occurrence of variation in genetics

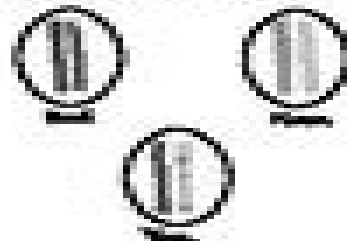
→ his basic knowledge of chromosomes or DNA: he called them "factors"



	Dominant	Recessive
Seed shape	Smooth	Wrinkled
Seed color	Yellow	Green
Flower color	Purple	White
Pt. shape	Upright	Trailing
Flt. color	Inflated	Constricted
Flower position	Axial	Terminal
Stem height	Tall	Short

How exactly are your traits passed on?

→ by genes that are located on chromosomes



**Alleles** - different forms of the same gene; you inherit one of these alleles

Ex. gene = eye color allele = brown, blue, hazel

→ are located in the same position on homologous chromosomes



# 6mendel And Heredity Study Guide Answers

**David A. Stetler**



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