

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

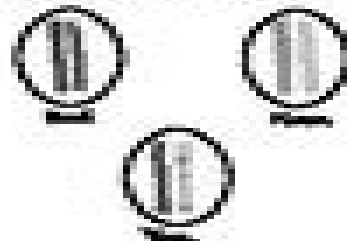
→ his basic knowledge of chromosomes or DNA: he called them "factors"



	Dominant	Recessive
Seed shape	 Smooth	 Wrinkled
Seed color	 Yellow	 Green
Flower color	 Purple	 White
Pt shape	 Inflated	 Constricted
Pod color	 Green	 Yellow
Flower position	 Axillary	 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



Mendel And Heredity Study Guide

Jane B. Taylor, John D. Jackson



Mendel And Heredity Study Guide:

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Human Concerns, by E. Peter Volpe Peter A. Rosenbaum, 1993
Teresa Audesirk and Gerald Audesirk David J. Cotter, 1986
Lusardi, Rosemarie Kent, 2007

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