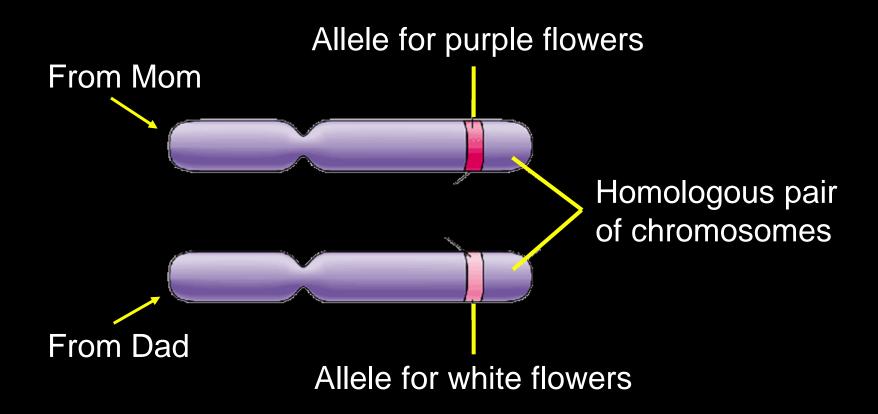
Mendelian Genetics Part 1



Learning Objectives

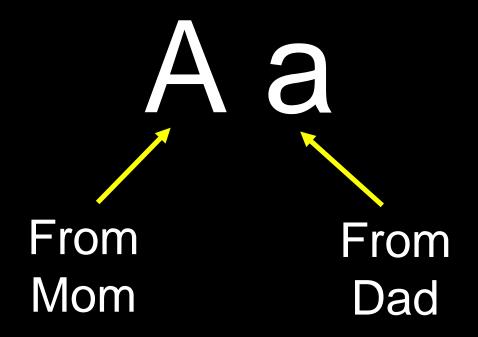
 Describe what an allele is and explain the difference between homozygous and heterozygous alleles

What is an Allele?

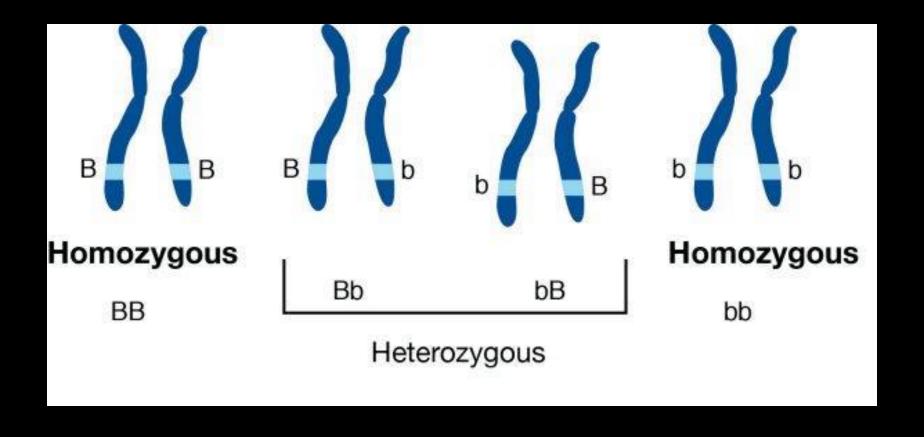


Allele - a version of a gene that is located at a specific position on a specific chromosome

Alleles are Represented by Letters



Homozygous vs. Heterozygous



Homozygous - two alleles are identical (BB, bb) Heterozygous - two alleles are different (Bb)

Capital Letters are Dominant

Aa

Dominant
Allele
(Powerful, Influential)

Recessive
Allele
(Withdrawn)

Dominant Masks Recessive

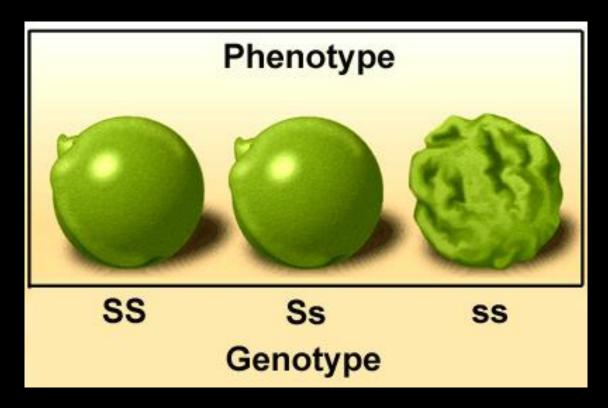


Dominant allele = F F or F f

Recessive allele = f f

An organism will always exhibit the dominant trait when present.

Genotype vs Phenotype



Phenotype - physical appearance of an inherited trait.

Genotype - genetic makeup of an organism.

YouTube Genotype vs. Phenotype

Stop Here

