Mendel’s research

Methods



Pure line population that breeds true

Dihybrid crosses

Punnett squares use to see gamete possibilities

selective cross breeding cross pollination is transfer of pollen btwn plants

Traits used

Smooth pea seeds

Yellow pea seeds

Wrinkly pea seeds

Green pea seeds

Tall and short plants

White or purple flower

Axial or terminal flower placement

Constricted or smooth pod

Seed coat grey or white

Law of Segregation

genes separate into different cells

genes can exist in one or more forms

organisms inherit two alleles for each trait

when gametes are produced alleles separate leaving one allele for each trait

when the two alleles of a pair are different one allele is dominant and one allele is recessive

Independent assortment

The alleles separate from each other during meiosis one trait does not affect another

Describes how different genes separate from each other when the reproductive cells develop