Genotype vs phenotype

Genotype	Phenotype
Traits that are in your genes but aren't always physically visible	Traits you can physically see

Dominant vs recessive genes

Dominant	Recessive
A gene that is ALWAYS shown in the phenotype	A gene that isn't always expressed in the phenotype
Capital letter	Represented by a lower case letter

What was mendels method?

Made sure the plants were "pure breeding" for the characteristic he wanted to study

Crossed pairs of contrasting traits and discovered progeny resembled only one parent but still had genetic information for both traits- hybrids

Characteristic shown by the hybrids is dominant and the other he referred to as recessive.

Gene expression

Heterozygous	Homozygous
Aa (one recessive one dominant)	AA or aa (either both dominant or recessive)

Principles of inheritance

During formation of gametes, factors separate and each gamete receives one of these factors. Gametes unite at fertilization allowing for different combinations of genes (principle of segregation)

Hereditary characteristics were controlled by factors which occurred in pairs

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