

## Unit Test Study Guide: Genetics

- What do these terms mean?
  - Dominant- the allele that is expressed
  - Recessive- the allele that is hidden
  - Phenotype- the physical characteristics of an organism
  - Genotype- the genetic makeup of an organism
  - Homozygous- two of the same alleles
  - Heterozygous- two different alleles
  - Allele- part of a gene, can be dominant or recessive
- Why is Mendel known as the father of Genetics? And why did he use peas?  
Mendel is the father of genetics because he he used pea plants for his research because they reproduced quickly and took up little space.
- Tall is dominant to short in pea plants. If a heterozygous tall pea plant is crossed with a short pea plant, what is the likelihood of getting a short plant in the offspring?  
50% chance of getting a short pea plant.

Tt	tt
Tt	tt

- Green is dominant to yellow in peas. If two heterozygous pea plants are crossed, what is the likelihood that the offspring will be green?  
75% chance of offspring being green

Gg	Gg
Gg	gg

- If a heterozygous green plant is crossed with a homozygous green plant, what is the likelihood that the offspring will be yellow?  
0% chance of offspring of being yellow

GG	Gg
GG	Gg

- Describe the difference between dominance, incomplete dominance and codominance.

# High School Genetics Study Guide

**L Reisser**



## **High School Genetics Study Guide:**

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