Vocabulary: Hardy-Weinberg Equilibrium

🔟 Vocabulary

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- <u>Allele</u> one of two or more forms that a gene could take.
- <u>Genotype</u> the genetic makeup of an organism.
 - The alleles possessed by an organism are represented by symbols. For example, a parrot with dark green feathers might have the genotype *DD*.
- <u>Hardy-Weinberg equation</u> equation that describes the relative frequency of genotypes in a stable population given the proportions of alleles.
- <u>Hardy-Weinberg principle</u> principle stating that the proportions of different alleles and genotypes in a population will remain stable as long as certain conditions are met.
 - The Hardy-Weinberg principle applies to large populations in which mating is random, there is no migration, no mutations are occurring, and natural selection is not occurring for the alleles in question.
- <u>Heterozygous</u> having two alleles that are different.
- <u>Homozygous</u> having two alleles that are the same.
- <u>Incompletely dominant</u> a pattern of inheritance in which the recessive allele is not completely masked by the dominant allele.
 - If the alleles are incompletely dominant, a heterozygote will have a phenotype that is intermediate between the phenotypes of the homozygotes.
- <u>Punnett square</u> a diagram that shows the possible offspring of two parents.
 - Punnett squares allow you to determine the probability of each offspring genotype.

