

# Genetics Vocabulary



1. ( ): the genetic material that carries information about an organism and is passed from parent to offspring.
2. : The passing of traits from parents to offspring.
3. : A characteristic that an organism can pass on to its offspring through genes.
4. : The scientific study of heredity.
5. : A set of information that controls a trait; a segment of DNA on a chromosome that codes for a specific trait.
6. : The different forms of a gene that can be dominant and recessive.
7. : A pair of chromosomes carrying genes that determine whether a person is a male (XY) or female (XX).
8. : A chart that shows all the possible combinations of alleles that can result from a genetic cross.
9. : An organism's physical appearance, or visible traits.
10. : An organism's genetic makeup, or allele combinations.
11. ( ): Having two identical alleles for a trait (AA or aa) also known as *Purebred*.
12. ( ): Having two different alleles for a trait. (Aa) also known as *Hybrid*.
13. : A reproductive process that involves two parents that combine their genetic material to produce a new organism, which differs from both parents.
14. : The joining of a sperm and an egg.
15. : A reproductive process that involves only one parent and produces offspring that are identical to the parent.
16. : An allele whose trait always shows up in the organism when the allele is present.
17. : An allele that is masked (hidden) when a dominant allele is present.
18. : A number that describes how likely it is that an event will occur.
19. : A change in a gene or chromosome.