

1. Explain the difference between the following & provide an example of each:

a. genotype & phenotype

Genotype refers to the genetic makeup (the letters - GG,Gg,gg) while phenotype refers to how the genetic content is expressed (the looks - green or yellow).

b. homozygous & heterozygous

Homozygous genotype has either both the dominant alleles, or both the recessive alleles (RR, rr) while heterozygous genotype has one of each (Rr).

c. recessive & dominant

Recessive traits are only expressed if both alleles are recessive and may often "skip" a generation (brown eyes - BB or Bb). Dominant alleles are always expressed when present (blue eyes - bb).

d. true breed & hybrid

A true breed will always produce the same offspring and are of the homozygous form (HH, hh). The parent generation is a true breed. A hybrid is a result of a cross. (A test cross is a method used to verify that a trait is true breeding.

e. autosome & sex chromosome

Autosomal chromosomes are any chromosomes unrelated to sex determination (not sex linked), and sex chromosomes are those that do determine the sex of an organism (XX, XY).

f. incomplete dominance & codominance

Incomplete dominance is when a dominant allele can not fully dominate the other resulting in a sort of blending (chestnut horse HH, white horse hh, palomino horse Hh). Codominance is when both alleles are dominant and both are expressed equally (red bull RR, white cow rr, roan cow Rr).

g. carrier & x-linked traits (do not need to differentiate)

A carrier is an organism that has a heterozygous genotype, the dominant allele that is expressed gives a "normal" phenotype while they still carry the recessive allele which is the "disorder".

X-linked traits are those that are linked to the X chromosome.

Example - colorblindness.

$X^B X^B$  - normal female

$X^B X^b$  - carrier female

$X^b X^b$  - colorblind female

$X^B Y$  - normal male

$X^b Y$  - colorblind male

(males can not be carriers of sex linked traits!)

2. What type of cross always results in all heterozygous offspring?

A cross between true breeds (or the P generation). FF x ff

# Honors Biology Genetics Study Guide

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