Punnetts Cheat Sheet

by ABaumgart via cheatography.com/210964/cs/45611/

Cheatography

Monohybrid Cross

Alleles for Rita>>>		$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$
Fred's Alleles	В	b
	BB	Bb
В		
∳ X	Bb	bb
b		

Terms

Homozygous Dominant - AA

Homozygous Recessive - aa

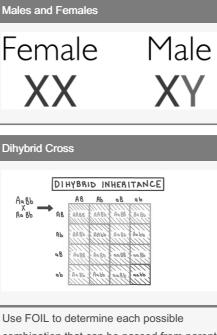
Heterozygous - Aa; sometimes called a "carrier"

Genotype - the alleles inherited from parents; represented by letters (example: AA)

Phenotype - observable trait that results from the genotype (example: Brown Eyes)

Dominant - masks recessive trait; only need to inherit one copy to display trait

Recessive - must inherit two recessive alleles to display trait; "hidden" when dominant allele is present



combination that can be passed from parent to child.



Incomplete Dominance

Polygenic Traits

When two or more genes control a trait

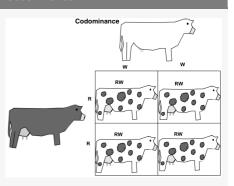
Skin Color - 4 to 7 genes

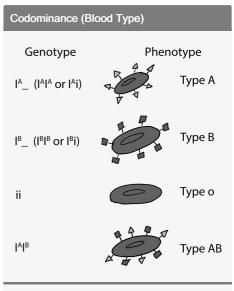
Eye Color

Height

Blood Type (Type + Rh Factor)

Codominance





A is Codominant with B

O is recessive to A and B

+ is dominant

- is recessive

X-Linked



* X-linked traits are much more common in males than females because males have only one X chromosome. Females need to inherit two mutated alleles to have the disease, while men can get the disease with just one mutated allele.

* X^C X is an unaffected female carrier

* X^C Y is an affected male

* X^C X^C is an affected female

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