

Punnetts Cheat Sheet

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

Monohybrid Cross

Alleles for Rita>>>		♦ ×
Fred's Alleles	В	b
	ВВ	Bb
В		
₩	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)

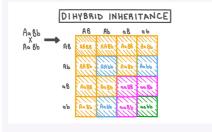
Dominant - masks recessive trait; only need to inherit one copy to display trait

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

Males and Females



Dihybrid Cross



Use FOIL to determine each possible combination that can be passed from parent to child.

Dihybrid FOIL



Incomplete Dominance



Polygenic Traits

When two or more genes control a trait

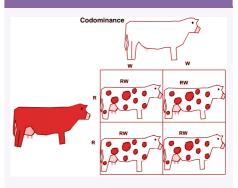
Skin Color - 4 to 7 genes

Eye Color

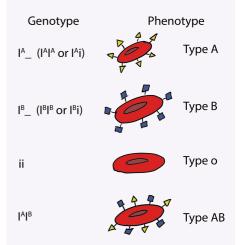
Height

Blood Type (Type + Rh Factor)

Codominance



Codominance (Blood Type)



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



By **ABaumgart** cheatography.com/abaumgart/

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