

Blending Model of Inheritance:

What are the two problems with the Blending Inheritance Model?

a)

b)

Particulate Model of Inheritance:

Gregor Mendel:

Diploid:

Haploid:

Gametes:

Gene:

Alleles:

Phenotype:

Genotype:

Allele interactions:

Homozygous:

Heterozygous:

Dominant:

Recessive:

Incomplete Dominance:

Co-dominance:

Multiple Alleles:

Epistasis:

Pleiotropy:

Polygenic trait:

Mendel's two laws:

Segregation of Alleles:

Independent Assortment:

Sex-specific inheritance patterns:

Autosomes:

Sex-chromosomes:

Sex-linked traits:

X-Chromosome Inactivation:

Barr Bodies:

How does a Calico cat get its mosaic coat color?

Environmental influence on expression of a genotype:

Phenotypic Plasticity:

Example 1: Long stem / Short Stem peas

Example 2: Corn color

Example 3: Sex-linked colorblindness

X+ = Color vision (Dominant)

X- = colorblind (Recessive)

How many males will be colorblind? _____

How many females will be colorblind? _____

	X+	X-
X-		
Y		

