

Main Topic: Variation in Traits

Learning Objectives/Outcomes: understand how traits vary due to incomplete dominance, codominance, and mutation. Identify genetic and environmental variation in traits

Topic 1: Environment & Genotype	Topic 2: Codominant, Incomplete, Polygenic Traits	Topic 3: Mutation & Selective Breeding
<p><u>Ideas</u> What factors causes variations in phenotype?</p> <p>How do environmental factors impact the physical representation of a trait? Name an example.</p> <p>What role does the environment play in the variety of the dog species? The zebra species?</p>	<p><u>Ideas</u> When does incomplete dominance occur? What type of phenotype does it produce?</p> <p>When is a trait considered codominant? Name an example</p> <p>When is a trait polygenic? Name an example.</p>	<p><u>Ideas</u> When do mutations occur and discuss their cellular effects. Are they harmful?</p> <p>What's another name for Selective Breeding?</p> <p>How do breeders use selective breeding to make dogs with floppy skin?</p> <p>What is the source of variation of species?</p>

Key Vocabulary

Variation

Genetic Factor Examples

Environmental Factor Examples

Key Vocabulary

Incomplete Dominance

Codominance

Polygenic

Key Vocabulary

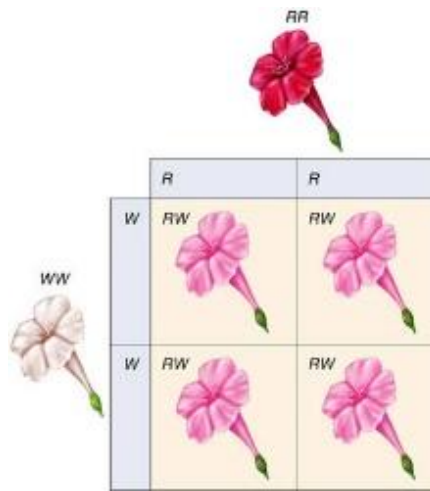
Mutation

Selective Breeding

Pictures



Pictures



Blood type	Genotype	
A	I^A, I^O	AO
	I^A, I^A	AA
B	I^B, I^O	BO
	I^B, I^B	BB
AB	I^A, I^B	AB
O	I^O, I^O	OO

Pictures

