Life Science (Heredity)
Grade 8 Science Grade 8 Science

Start Date: January 31, 2014 End Date: February 07, 2014

Unit Overview	Content Elaborations	Unit Resources
This topic focuses on continuation of species.	The traits of one or two parents are passed on to Traits are determined by instructions encoded ir genes. Genes have different forms called alleles genetics by reviewing Mendel's work. Mendel's future study of modern genetics. Mendel's first law, the Law of Independent Assortment, should of organisms. The concepts of dominant and reclevel. Codominant traits such as roan color in he further validation of the theory and to help disperappropriate for this grade level when limited to trait. The Law of Independent Assortment should dominance and recessive traits. Chi-square and Conduct a long-term investigation to analyze an parent to offspring through sexual and asexual rephenotypes that appear in the resulting generation offspring.	Study Island Gizmo Lab: Inheritance
Unit Vocabulary Heredity	Enduring Understandings (Big Ideas) The characteristics of an organism are a	Connections
Dominant Trait Recessive Trait Gene Allele	result of inherited traits received from parent(s). Expression of all traits is determined by genes	
Phenotype	and environmental factors to varying degrees.	

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Genotype Probability Punnett Square Meiosis

Pedigree Sex Chromosome Many genes influence more than one trait, and many traits are influenced by more than one gene.

During reproduction, genetic information (DNA) is transmitted between parent and offspring. In asexual reproduction, the lone parent contributes DNA to the offspring. In sexual reproduction, both parents contribute DNA to the offspring.

Standards

OH Academic Content Standards - Science (2011) - Grade 8

Strand LS Life Science

Topic LS.1 This topic focuses on continuation of the species.

Content Statement LS.1.3 The characteristics of an organism are a result of inherited traits received from parent(s).

LS.1.3.a Expression of all traits is determined by genes and environmental factors to varying degrees. Many genes influence more than one trait, and many traits are influenced by more than one gene.

LS.1.3.b During reproduction, genetic information (DNA) is transmitted between parent and offspring. In asexual reproduction, the lone parent contributes DNA to the offspring. In sexual reproduction, both parents contribute DNA to the offspring.

Student Assessment	Unit Refection