Life Science (Reproduction) Grade 8 Science Grade 8 Science

Grade 8 Science Grade 8 Science Start Date: January 02, 2014 End Date : January 17, 2014

Unit Overview This topic focuses on the continuation of the species.	Content ElaborationsAn individual organism does not live forever. R of every species. Most organisms reproduce eith capable of both. In asexual reproduction, all ger means the offspring are genetically identical to a Mitosis was investigated in grade 6. The end pro- are compared as they relate to asexual and sexual mitosis and meiosis are addressed in preparation 	Unit Resources Gizmo Lab: Inheritance Study Island Enrichment Textbook: Chapter 2.1 Textbook: Chapter 5
	organism. The same genetic information is copi reproduction, new combinations of traits are pro organism's chances for survival. Investigations used to compare offspring to parents in sexual a	
Unit Vocabulary	Enduring Understandings (Big Ideas)	Connections
cell heredity metabolism homeostasis asexual reproduction sexual reproduction offspring	Reproduction is necessary for the continuation of every species.Every organism alive today comes from a long line of ancestors who reproduced successfully every generation. Reproduction is the transfer of genetic information from one generation to	

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trait mitosis meiosis	the next. It can occur with mixing of genes from two individuals (sexual reproduction). It can occur with the transfer of genes from one individual to the next generation (asexual reproduction). The ability to reproduce defines living things.	

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.1.1 Reproduction is necessary for the continuation of every species.

LS.1.1.a Every organism alive today comes from a long line of ancestors who reproduced successfully every generation. Reproduction is the transfer of genetic information from one generation to the next. It can occur with mixing of genes from two individuals (sexual reproduction). It can occur with the transfer of genes from one individual to the next generation (asexual reproduction). The ability to reproduce defines living things.

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
Chapter Test	
Gizmo Assessment	
Study Island Assessment	

Reproduction

Content	Skills	Assessment
A. Reproduction	A. Reproduction	
	1. Explain how asexual reproduction differs from sexual	

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