



Science - Grade 8 - 30 Weeks

NYS Performance Indicators	Objectives	Text Resources	Resources (Suggested Activities)	Cross-Curriculum Connections	Assessment Items
MST4.1.LE3A	3.1a The processes of sexual reproduction and mutation have given rise to a variety of traits within a species.	Cells and Heredity 90-92, 146-147	Modeling Natural Selection (Lab Generator)	Math- Math Connections p16 Life Over Time ELA- Report for Information	No local exam for 30 and 40 weeks. State Assessment will count 30% of 40-week grade.
MST4.1.LE3A	3.1b Changes in environmental conditions can affect the survival of individual organisms with a particular trait. Small differences between parents and offspring can accumulate in successive generations so that descendants are very different from their ancestors. Individual organisms with certain traits are more likely to survive and have offspring than individuals without those traits.	Life Over Time 9-35	See above	See above	See above
MST4.1.LE3A	3.1c Human activities such as selective breeding and advances in genetic engineering may affect the variations of species	Cells and Heredity 150-156	See above	See above	See above
MST4.1.LE3B	3.2a In all environments, organisms with similar needs may compete with one another for resources.	Life Over Time 81-97	Virtual Fossil Hunt (Lab Generator) How Can You Model Evolution (Lab Generator) Investigate Fossil Records (Lab Generator) PBS Evolution	Math- Math Connections 59 ELA- Constructed Response	
MST4.1.LE3B	3.2b Extinction of a species occurs when the environment changes and the adaptive characteristics of a species are insufficient to permit its survival. Extinction of species is common. Fossils are evidence that a great variety of species existed in the past.	Life Over Time 9-35	See above	See above	

MST4.1.LE3B	<p>3.2c Many thousands of layers of sedimentary rock provide evidence for the long history of Earth and for the long history of changing life forms whose remains are found in the rocks. Recently deposited rock layers are more likely to contain fossils resembling existing species.</p>	<p>Life Over Time 9-35</p>	<p>See above</p>	<p>See above</p>	
MST4.1.LE3B	<p>3.2d Although the time needed for change in a species is usually great, some species of insects and bacteria have undergone significant change in just a few years.</p> <p>Gr 8 Science Report Card Objectives</p>	<p>Cells and Heredity 91</p>	<p>See above</p>	<p>See above</p>	<p>Gr 8 Science Checklist</p> <p>Standard 1-Analysis, Inquiry & Design</p>

Vocabulary

Technology Links

Biological	(Continued)
Diversity & Adaptations	Descendent
Classification	Competition
Systems	Diversity
Life Activities	Evolution
Reproduction	Fossil
Adaptive	Naturally
Characteristics	Occurring
Biological	Variances
Adaptation	Population
Competition	Selective
within a Species	Breeding
Diverse Species	Survival
Environment	Traits
Extinction	Variations
Natural Selection	Continuity of Life
Physiology	Multi-cellular
Resources	Organisms
Development	Species
Living Things	Genetic
Shared	Engineering
Characteristics	Mutation
Ancestor	Offspring

