Readorium Alignment to FOSS Kit: Genetics, Inheritance & Variance of Traits		
Readorium Books	Magazine Articles (A) and Science Alive	Teacher Resource Center
By Standard	Videos (V) By Standard	Classroom Strategy Lessons (CL)
		with Articles (A) by Standard
NGSS: 6-8-LS3.A. Heredity: Inheritance and Variation of Traits: Inheritance of Traits: Genes are located in the		
chromosomes of cells, with each chromosomes pair containing two variants of each of many distinct genes. Each distinct gene		
chiefly controls the production of specific proteins, which in turn affects the traits of the individual. Changes (mutations) to		
genes can result in changes to proteins, which can affect the structures and functions of the organism and thereby change		
traits. (MS-LS3-1)		
Variations of inherited traits between parent and offspring arise from genetic differences that result from the subset of		
chromosomes (and therefore genes) inherited. (MS-LS3-2)		
Desert Biomes	 How Video Games Affect Personality (A) 	•
 Surviving in Nature 	 Strange Medical Conditions (A) 	
	Why Are Some Hands more "Handy"(A)	
NGSS: 6-8-LS3.B. Heredity: Inheritance and Variation of Traits: Variation of Traits: In sexually reproducing organisms,		
each parent contributes half of the genes acquired (at random) by the offspring. Individuals have two of each chromosome and		
hence two alleles of each gene, one acquired from each parent. These versions may be identical or may differ from each other.		
(MS-LS3-2)		
In addition to variations that arise from sexual reproduction, genetic information can be altered because of mutations. Though		
rare, mutations may result in changes to the structure and function of proteins. Some changes are beneficial, others harmful,		
and some neutral to the organism. (MS-LS3-1)		
 Mitosis and Meiosis 	•	•
• Genetics		
NGSS: 6-8-LS4.A. Heredity: Biological Evolution: Unity and Diversity: Evidence of Common Ancestry and Diversity:		
The collection of fossils and their replacement in chronological order (e.g. through the location of sedimentary layers in which		
they are found or through radioactive dating) is known as the fossil record. It documents the existence, diversity, extinction, and		
change of many life forms throughout the history of life on Earth. (MS-LS4-1)		
Anatomical similarities and differences between various organisms living today and between them and organisms in the fossil		
record, enable the reconstruction of evolutionary history and the inference of lines of evolutionary descent. (MS-LS4-2)		
 Surviving in Nature 	•	• Context Clues (CL-1, A-1 Life
		Inside Deep Caves)
		Ton)
		 Context Clues CL-3 A-2. What
		Happens When Something Goes
		Extinct)
		 Creating Sensory Images (CL-2, A-
		1 The Call of the Tinamou)
NGSS: 6-8-LS4.B. Heredity: Biological Evolution: Unity and Diversity: Natural Selection: In artificial selection, humans		
have the capacity to influence certain characteristics of organisms by selective breeding. One can choose desired parental traits		
determined by genes, which are then passed on to offspring. (MS-LS4-5)		
Desert Biomes	• From Blinking to Thinking: The Amazing	• Context Clues (CL-1, A-1 Life
Nature's Weird Surprises	Human Brain (A)	Inside Deep Caves)
Scientists who Changed the World Supriving in Nature		
 Surviving in ivature 		