

**REDBANK VALLEY SCHOOL DISTRICT
SCIENCE CURRICULUM MAP**

APPLIED BIOLOGY

PA SCIENCE & TECHNOLOGY STANDARDS	CHAPTER										
	TOPICS	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	
	UNIFYING THEMES	Biomes; Precipitation & Temperature in inches/cm. & Celsius/Fahrenheit	Microscopes: Estimating Size, Succession								
	INQUIRY & DESIGN		Population Labs	Osmosis Observation Lab							
	BIOLOGICAL SCIENCES			Cell Parts & Functions; Photosynthesis & Respiration	DNA & Protein Synthesis; Cell Division	Genetics; Taxonomy Labs; Use of Keys	Compare & Contrast Animal Phyla	Compare & Contrast Animal Phyla	Compare & Contrast Plant Phyla	Compare & Contrast Plant Phyla	
	PHYSICAL SCIENCE, CHEMISTRY, PHYSICS			Photosynthesis & Respiration							
	EARTH SCIENCES	Water Cycle: Erosion & Sedimentation; Biomes: Climate & Weather	Succession: Earthquakes & Landslides; Plant & Animal Adaptations to Environment; Water Pollution								
	TECHNOLOGY EDUCATION										
	SCIENCE, TECHNOLOGY, AND HUMAN ENDEAVORS		Impact of Humans & Technology on Environment								

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PA ENVIRONMENT & ECOLOGY STANDARDS	CHAPTER										
	TOPICS	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	
	WATERSHEDS & WETLANDS	Watersheds: Local & Regional; Stream Order; Water Cycle Importance of Wetlands/ Floods									
	RENEWABLE & NONRENEW RESOURCES	National Resources Cycles; Energy Use vs. Conservation Recycling									
	ENVIRONMENT HEALTH		Ramifications of Pollution: Health, Financial, & Environmental Natural Sources of Pollution								
	AGRICULTURE & SOCIETY										
	INTEGRATED PEST MANAGEMENT		Problems Caused By Exotic Species; Pros & Cons of Various Pest Control Methods								
	ECOSYSTEMS AND INTERACTIONS	Compare/Contrast Biomes; Food Chains/Pyramids; Significance of Carrying Capacity; Factors Affecting Population Size	Succession; Factors Affecting Population Size								
	THREATENED, ENDANGERED AND EXTINCT SPECIES		Effects of Loss of Biodiversity; Significance of Species & Niche								
	HUMANS & ENVIRONMENT	Loss of the Tropical Rain Forest & Its Impact on the World	Sustainable Use; Habitat Loss; Fragmentation & Degradation								
ENVIRONMENT LAWS		Pros & Cons of Environmental Laws & Regulations; Local vs. Federal Agencies									