

**REDBANK VALLEY SCHOOL DISTRICT  
SCIENCE CURRICULUM MAP**

**BIOLOGY I**

PA SCIENCE & TECHNOLOGY STANDARDS	CHAPTER									
	TOPICS	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY
	<b>UNIFYING THEMES</b>			Properties of water	Dynamic Equilibrium		Evolutionary Patterns	Taxonomic Schemes		
	<b>INQUIRY &amp; DESIGN</b>	Building Food Webs & Pyramids	Effects of Urban Development; Climographs	Cell Anology Collage; Building Molecules	Comparison of Membrane Models; Equilibrium Lab; Mitosis Lab	Problem Solving; Yeast Lab	Protein Construction from DNA code	Using & Constructing Dichotomous Keys	Observing Protists in Pond Water	Dissection
	<b>BIOLOGICAL SCIENCES</b>			Cell Structure & Function; Biological Molecules	Cell Structure & Function; Membrane Transport; Cell Division	Biological Energy; Photosynthesis & Respiration; Genetics	DNA Structure & Function/Protein Synthesis; Evolution	Classification; Viruses & Bacteria	Protists; Fungi	Plants; Animals
	<b>PHYSICAL SCIENCE, CHEMISTRY, PHYSICS</b>			Chemical Structure & Bonding Patterns						
	<b>EARTH SCIENCES</b>	Role of Climate in Ecosystems								
	<b>TECHNOLOGY EDUCATION</b>	Online Activities	MS Power Point; Online Activities	Cells Alive; Online Activities	Use of Microscopes; Cells Alive; Online Activities	"Faces" Computer Project; On Line Labs; Online Activities	Online Activities	Computer Labs; Microscopes; Cells Alive; Online Activities	Online Activities; Microscopes	Online Activities
	<b>SCIENCE, TECHNOLOGY, AND HUMAN ENDEAVORS</b>				Human Karyotyping	Human Heredity		Disease Control		

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	TOPICS	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	
	WATERSHEDS & WETLANDS		PA Watersheds; Streamflow and Stream Order								
	RENEWABLE & NONRENEW RESOURCES	Energy Flow & Nutrients Cycles									
	ENVIRONMENT HEALTH		Sustainability								
	AGRICULTURE & SOCIETY	Effects of Nutrient Runoff; Pollution	Buffer Zones								
	INTEGRATED PEST MANAGEMENT										
	ECOSYSTEMS AND INTERACTIONS	Ecosystems & Communities; The Biosphere	Succession; Aquatic & Terrestrial Biomes; Biome								
	THREATENED, ENDANGERED AND EXTINCT SPECIES										
	HUMANS & ENVIRONMENT		Human Impacts on Biomes & Watersheds								
ENVIRONMENT LAWS											