

**REDBANK VALLEY SCHOOL DISTRICT
SCIENCE CURRICULUM MAP**

SCIENCE 7

PA SCIENCE & TECHNOLOGY STANDARDS	CHAPTER									
	TOPICS	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY
UNIFYING THEMES	Photosynthesis; Energy	Environmental Evolution	Characteristics of Life	Food/ Energy	Photosynthesis; Cell Structure	Photosynthesis	Cell Specialization; Organ Systems	Cell Specialization; Organ Systems	Organ Systems	
INQUIRY & DESIGN	Construct Food Web	Photographic Slide Analysis		Creative writing on Protista	Pollination/Seed Analysis	Earthworm Lab	Grasshopper Lab	Vert. Anatomy Lab	Pig Dissection	
BIOLOGICAL SCIENCES	Food Chain; Adaptations; Succession; Limiting Factors	Biome Study	Cell Structure; Taxonomy	Microscopes; Protista & Bacteria	Fungi; Plant study	Plants; Invertebrate Phyla	Invertebrate Phyla	Vertebrate Animals	Human Body Systems	
PHYSICAL SCIENCE, CHEMISTRY, PHYSICS	Energy Use		Chemical Elements; Equations						Enzymes; Hormones	
EARTH SCIENCES	Fossils	Climate controls; Topography		Oil/Gas Reserves	Soils	Coal Formation			Anthropology	
TECHNOLOGY EDUCATION										
SCIENCE, TECHNOLOGY, AND HUMAN ENDEAVORS	Human Food Pyramid	Human use of Biomes		Disease & disease Control		Agriculture & food	Interactions with Humans	Structural Similarity/ Differences to Human	Medical Advances; Drug Awareness	

**REDBANK VALLEY SCHOOL DISTRICT
SCIENCE CURRICULUM MAP**

SCIENCE 7

PA ENVIRONMENT & ECOLOGY STANDARDS	CHAPTER										
	TOPICS	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	
	WATERSHEDS & WETLANDS	Pond Succession; River Systems	Seacoast and Tidal Marsh Ecology; Water cycle				Affect on Habitat	Roles of Crustaceans in Marsh	Habitat and Territory Importance to Birds		
	RENEWABLE & NONRENEW RESOURCES	Limiting factors & Effect on Populations	Lumbering & Soil Conservation; Water Erosion; Farming Belts			Oil & Gas Reserves	Soil Formation & Decomposers: Food from ocean				
	ENVIRONMENT HEALTH	Lyme Disease; West Nile Virus	Human Intervention in Major Biomes	Daphnia Cultures & Response to Environment		Disease Control; Bacteria growth; Antibiotics; Antibodies		Endoparasites; Balanced Ecosystems	Amphibian Indicators of Environmental Condition	Structure & Function of organ Systems; Mammal	Pig Dissection; Surgical Techniques; Drug awareness
	AGRICULTURE & SOCIETY		Farming in Great Plains; Crop belts of U.S.				Photosynthesis & Plant growth; Bees & Pollination			Genetic Energy of Crops	Diet & civilization
	INTEGRATED PEST MANAGEMENT							Grasshopper Swarms; Pesticides; Control of Insects			
	ECOSYSTEMS AND INTERACTIONS	Succession; Food chains; Adaptations	Major Biomes of the U.S.	Population Change in Daphnia Cultures			Food from Oceans	Roles of Crustaceans in Marsh	Territory; Imprinting; Bonding		
	THREATENED, ENDANGERED AND EXTINCT SPECIES	Galapagos Islands	Changes in Biomes By Humans				Dolphins/ Sea Turtles and Fishing		Bird Populations Related to Habitat		
	HUMANS & ENVIRONMENT	Habitats of Pennsylvania	Change in Biomes By Humans			Bacteria & Virus; Human Disease Control	Soil & Decomposers; Ocean Food Production	Human Endoparasites	Imprinting	Environmental Pollution & Body Organs	
ENVIRONMENT LAWS	Protection of Species					Fishing Regulations	Meat Inspection; Shoes worn in Restaurants		Pollution Regulations		