

**REDBANK VALLEY SCHOOL DISTRICT
SCIENCE CURRICULUM MAP**

SCIENCE 7

| | CHAPTER | | | | | | | | | |
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| | TOPICS | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | JANUARY | FEBRUARY | MARCH | APRIL | MAY |
| PA SCIENCE & TECHNOLOGY STANDARDS | 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 |

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| 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 | | |