

**REDBANK VALLEY SCHOOL DISTRICT
SCIENCE CURRICULUM MAP**

APPLIED BIOLOGY

| PA SCIENCE & TECHNOLOGY STANDARDS | CHAPTER | | | | | | | | | | |
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| | 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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| | 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 | | | | | | | | | |