

Text: Environmental Science; Schachter, M., AMSCO School Publications, 1999.

MONTH	CONTENT	NYS STANDARD/KEY IDEA/PERFORMANCE INDICATOR	LAB THEMES	SKILLS	ASSESSMENTS
<h1 style="writing-mode: vertical-rl; transform: rotate(180deg);">September</h1>	<p>Environmental Scientists The web of life The scientific method The Biosphere</p> <p>The third planet from the sun The universe Doppler Effect The sun's family The moon Tidal Forces The seasons</p> <p>The Earth's crust Parts of the Earth Rocks and minerals Continental drift Plate tectonics Plate boundaries Volcanoes Earthquakes</p> <p>The role of <i>Nanotechnology</i> Advancements in research Cutting edge technologies</p>	<p>LE Core* 1.1a, 4.1.1 a-b, 4.1.1d, 4.1.f, 4.6.1a, 4.6.1c, 4.6.1d, 4.6.1g</p> <p>ES Core** 1:1 1:2 4:1a, b, d, f-i 4:1.2a-g, i-j 4:2.1a-p 4:2.2a-d 4:3.1a-c 7:1</p> <p><small>* Taken from Living Environment Core Curriculum</small></p> <p><small>** Taken from Physical Setting/Earth Science Core Curriculum</small></p>	<p>Conducting an Experiment</p> <p>Angle of Insolation</p> <p>Mount Saint Helen's</p>	<p>Design an experiment to test a hypothesis.</p> <p>Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.</p> <p>Students will incorporate concepts and topics to everyday living.</p> <p>Students will research current information.</p>	<p>Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.</p>

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<h1 style="writing-mode: vertical-rl; transform: rotate(180deg);">September (cont.)</h1>	<p>Blankets of Air and Water The atmosphere Composition Stratification Weather Air Pressure Air Temperature Humidity Climate Affecting factors <i>Nanoscience</i> Global Warming The hydrosphere Topographic features Ocean currents Properties of water Hydrogen bonds Salinity</p> <p>A journey through time The rock record Age dating Radioactive Decay Superposition Index fossils Geologic Time Precambrian era Paleozoic era Mesozoic era Cenozoic era</p>	<p>ES Core** 4:1.2e-g, i-j 4:2.1a-i 4:2.2a-d 7:1</p> <p><small>* Taken from Living Environment Core Curriculum</small></p> <p><small>** Taken from Physical Setting/Earth Science Core Curriculum</small></p>	<p>Weather Log Climate</p> <p>Wave action</p> <p>Radioactive Dating</p>	<p>Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.</p> <p>Students will incorporate concepts and topics to everyday living.</p> <p>Students will research current information.</p>	<p>Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.</p>

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<h1 style="writing-mode: vertical-rl; transform: rotate(180deg);">October</h1>	<p>The web of life The sphere of life Biotic & Abiotic Building blocks of life Cells Life’s varied roles</p> <p>The Roll Call A place for everything Taxonomy Five Kingdoms</p> <p>Needs of Living Things Food Production Chemical Energy Energy Supplies Aerobic/Anaerobic Predator /Prey Photosynthesis</p>	<p>LE Core* 4.7.1a, 4.7.1c, 4.7.2 a-c, 4.7.3b</p> <p>4.1.2a, 4.1.2 e – I, 4.1.3a</p> <p>1.1.1b, 4.3.1.e, 4.3.1k</p> <p>4.1.1 a-c, 4.6.1a, 4.6.1e, 4.6.1g,</p> <p>4.6.3b</p> <p>4.5.1 a-e, 4.6.1a</p> <p><small>* Taken from Living Environment Core Curriculum</small></p> <p><small>** Taken from Physical Setting/Earth Science Core Curriculum</small></p>	<p>Model of the Biosphere</p> <p>Identifying Characteristics</p> <p>Role of Sunlight</p> <p>Food web/ Food chain</p> <p>Endangered species</p> <p>Research current information</p>	<p>Distinguish differences between plant and animal cells, cell parts</p> <p>Design and use dichotomous keys to identify specimens</p> <p>Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.</p> <p>Students will incorporate concepts and topics to everyday living.</p> <p>Students will research current information.</p>	<p>Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.</p>

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<h1 style="writing-mode: vertical-rl; transform: rotate(180deg);">October (cont.)</h1>	<p>Moving Matter Food chains and webs Terrestrial chains Marine chains Decomposition Ecological pyramids Number Mass Productivity Biomes</p> <p>The O-CO₂ cycle Oxygen & the biosphere Formation CO₂ & the biosphere Climate O- CO₂ cycle</p> <p>Global Warming Loss of protected Species as well as their Habitats.</p>	<p>LE Core* 1.1.a, 4.1.1 a-b, 4.1.1d, 4.1.1f, 4.6.1a, 4.6.1c, 4.6.1d, 4.6.1g</p> <p>4.6.1 d - f</p> <p>ES Core** 4:1.2e, h</p> <p><small>* Taken from Living Environment Core Curriculum</small></p> <p><small>** Taken from Physical Setting/Earth Science Core Curriculum</small></p>	<p>Releasing stored energy</p> <p>Landfills</p> <p>Food webs / food chains</p> <p>Biodegradable versus non-biodegradable</p> <p>Elodea lab</p> <p>CO₂ Emissions</p>	<p>Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.</p> <p>Students will incorporate concepts and topics to everyday living.</p> <p>Students will research current information.</p>	<p>Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.</p>

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<h1 style="writing-mode: vertical-rl; transform: rotate(180deg);">December</h1>	<p>Jobs and Homes within the Biosphere Ecological Jobs Adaptations Ecological addresses Home range</p> <p>Competing for living space Competition Territory Env. Limits Sharing resources</p> <p>Nature’s Partnerships Symbiosis Parasitism Interactions Social life</p>	<p>LE Core* 1.1.1a, 4.1.1a-b, 4.1.1d, 4.1.1f, 4.6.1a, 4.6.1c, 4.6.1d, 4.6.1g</p> <p>4.1.1a-c, 4.6.1a, 4.6.1e, 4.6.1g, 4.6.3b</p> <p>4.1.1a-c, 4.6.1a, 4.6.1e, 4.6.1g, 4.6.3b</p> <p>* Taken from Living Environment Core Curriculum</p> <p>** Taken from Physical Setting/Earth Science Core Curriculum</p>	<p>Animal Habits</p> <p>Deforestation / Reforestation</p> <p>Habitat Destruction</p> <p>Competition on Plants</p> <p>Studying Lichens</p> <p>Biodiversity</p>	<p>Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.</p> <p>Students will incorporate concepts and topics to everyday living.</p> <p>Students will research current information.</p>	<p>Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.</p>

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<h1>January</h1>	<p>Changing Environment Terrestrial Ecosystems Aquatic Succession River Maturation Other Env. Changes</p> <p>Networks of Life Ecosystem Functions Types of Ecosystems Biotic Interactions Abiotic Environment</p> <p>The Forest Biomes Coniferous Forest Deciduous Forest Tropical Rain Forest Temperate Rain Forest</p> <p>Global Warming The study of the Interactions between Plants and animals in a Changing biome.</p>	<p>LE Core* 4.6.1a-g, 4.7.1a-b</p> <p>ES Core** 4:2.1r</p> <p>LE Core* 4.1.1a-c, 4.6.1a, 4.6.1e, 4.6.1g, 4.6.3b</p> <p>4.1.1c, 4.1.1d, 4.1.1e, 4.1.1f, 4.3.1h, 4.6.1d, 4.6.1e, 4.6.2a, 4.6.2b, 4.6.3a-c</p> <p><small>* Taken from Living Environment Core Curriculum</small></p> <p><small>** Taken from Physical Setting/Earth Science Core Curriculum</small></p>	<p>Glacial Erosion</p> <p>Habitat Destruction</p> <p>Miniature Ecosystems Air, water and land pollution</p> <p>Landfills</p> <p>Micro ecosystems</p>	<p>Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.</p> <p>Students will incorporate concepts and topics to everyday living.</p> <p>Students will research current information.</p>	<p>Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.</p>

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February	<p>Lands of limited Water The Tundra Biome Seas of Grass Deserts The Dry Chaparral Higher and Colder</p> <p>Freshwater Biomes Groundwater Standing Water Flowing Water</p> <p>Saltwater Biomes The Marine Env. Sandy Beaches Along Rocky Shores Wetlands The Ocean Waters</p>	<p>LE Core* 4.1.1c, 4.1.1d, 4.1.1e, 4.1.1f, 4.3.1h, 4.6.1d, 4.6.1e, 4.6.2a, 4.6.2b, 4.6.3a-c</p> <p>4.1.1c, 4.1.1d, 4.1.1e, 4.1.1f, 4.3.1h, 4.6.1d, 4.6.1e, 4.6.2a, 4.6.2b, 4.6.3a-c</p> <p>ES Core** 4:2.1u</p> <p>4.1.1c, 4.1.1d, 4.1.1e, 4.1.1f, 4.3.1h, 4.6.1d, 4.6.1e, 4.6.2a, 4.6.2b, 4.6.3a-c</p> <p><small>* Taken from Living Environment Core Curriculum</small></p> <p><small>** Taken from Physical Setting/Earth Science Core Curriculum</small></p>	<p>Making a Topographic Map</p> <p>Sedimentation</p> <p>Effect of Salt on Water Density</p>	<p>Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.</p> <p>Students will incorporate concepts and topics to everyday living.</p> <p>Students will research current information.</p>	<p>Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.</p>

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March	<p>Early Human Societies Human Evolution Social Groups Plants Animals</p> <p>The Technological Society The Stone Age Industrial Rev. Pop. Explosion Urban Ecosystems</p> <p>How Human Society Affects the Biosphere Urban Wastes Urban Pollution Alien Invaders</p> <p>Riches of The Earth Non Renewable Renewable Degredation Preserving our resources</p> <p>Water for Life <i>Nanotechnology</i> uses in: Potable Water Eutrophication Water Pollution</p>	<p>LE Core* 1.1.1a-b, 4.2.1c-e, 4.3.1c, 4.3.1e-k</p> <p>4.7.1a-c, 4.7.2a-c, 4.7.3a-b</p> <p><i>* Taken from Living Environment Core Curriculum</i></p> <p><i>** Taken from Physical Setting/Earth Science Core Curriculum</i></p>	<p>Pairing of Plants and Animals</p> <p>Uninvited Guests</p> <p>Atmospheric Particles</p> <p>Making Recycled Paper</p> <p>Carbonic Acid</p>	<p>Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.</p> <p>Students will incorporate concepts and topics to everyday living.</p> <p>Students will research current information.</p>	<p>Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.</p>

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<h1 style="font-size: 48px; margin: 0;">April</h1>	<p>Preserving our Waters Resources Water Quality Cons. Freshwater Cons. Marine Eco.</p> <p>Fresh Air For All Life Atmospheric Pollution Global Warming Global Cooling Pollution and Health</p> <p>Protecting the Atmosphere Measuring Air Poll. Conservation Practices Air Quality Legislation <i>Nanotechnology</i> in Poll. Monitoring and air Purification</p>	<p>LE Core* 4.7.1a-c, 4.7.2a-c, 4.7.3a-b</p> <p>ES Core** 6:6 7:1</p> <p><i>* Taken from Living Environment Core Curriculum</i></p> <p><i>** Taken from Physical Setting/Earth Science Core Curriculum</i></p>	<p>Removing Salt</p> <p>Atmospheric Pollution</p> <p>Effects of Acid Rain</p>	<p>Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.</p> <p>Students will incorporate concepts and topics to everyday living.</p> <p>Students will research current information.</p>	<p>Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.</p>

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May	<p>Nonrenewable Resources Nonrenewable Fuels Environmental Costs Conservation of Reserves</p> <p>Renewable Sources of Energy Renewable Energy Power in Moving Water Wind Power Energy Trapped (Geo) Oceans Energy Biomass Energy</p> <p>Energy From The Sun Passive Solar Heating Active Solar Heating Photovoltaic Storing Electrical Energy</p> <p>Nuclear Energy Nuclear Fission Obstacles to Nuclear Power Production Nuclear Fusion</p> <p>Habitat Destruction Shrinking Forests Desertification Destruction Of Wetlands</p>	<p>ES Core** 4:2.2a, b 6:6 7:1 7:2</p> <p>Phys Core*** 4:1a-p 7:1 7:2</p> <p>Chem Core ***** 4:3.2.vii-ix (j-k) 4:4.1 (b) 5:3</p> <p>LE Core 4.6.1a-g, 4.6.2a-b, 4.6.3a-c, 4.7.1a-c, 4.7.2a-d, 4.7.3a-b</p> <p>* Taken from Living Environment Core Curriculum</p> <p>** Taken from Physical Setting/Earth Science Core Curriculum</p> <p>***Taken from Physical Setting/Physics Core Curriculum</p> <p>****Taken from Physical Setting/Chemistry Core Curriculum</p>	<p>Generation Of Coal Gas</p> <p>Energy From the Wind</p> <p>Air Pollution and Solar Energy</p> <p>Model a Chain Reaction</p> <p>Planting Trees</p> <p>Reforestation</p>	<p>Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.</p> <p>Students will incorporate concepts and topics to everyday living.</p> <p>Students will research current information.</p>	<p>Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.</p>

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June	<p>Protecting Wildlife and the Environment Preserving Biodiversity Conservation of Wildlife Maintaining the Biosphere</p> <p>Food For All World Food Resources Increasing Productivity Greening America</p> <p>The Population Explosion Standing Room Only Managing the Pop. Spaceship Earth World Health Crisis</p>	<p>LE Core* 4.6.1a-g, 4.6.2a-b, 4.6.3 a-c, 4.7.1 a-c, 4.7.2 a-c, 4.7.3a-b</p> <p>ES Core 6:6 7:2</p> <p><small>* Taken from Living Environment Core Curriculum</small></p> <p><small>** Taken from Physical Setting/Earth Science Core Curriculum</small></p>	<p>Observing Birds</p> <p>Chemical Fertilizers</p> <p>Graphing Population Trends</p>	<p>Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.</p> <p>Students will incorporate concepts and topics to everyday living.</p> <p>Graphing</p> <p>Students will research current information.</p>	<p>Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.</p>