

**Environmental Science Curriculum Map**

<b>MONTH</b>	<b>CONTENT</b>	<b>NYS STANDARD/KEY IDEA/PERFORMANCE INDICATOR</b>	<b>LAB THEMES</b>	<b>SKILLS</b>	<b>ASSESSMENTS</b>
<b>S E P T E M B E R</b>	Environmental Scientists	<b>LE Core*</b>		Design an experiment to test a hypothesis.	Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.
	The web of life	1.1a, 4.1.1 a-b, 4.1.1d,	Conducting an Experiment	Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.	
	The scientific method	4.1.f, 4.6.1a, 4.6.1c,			
	The Biosphere	4.6.1d, 4.6.1g			
	The third planet from the sun	<b>ES Core**</b>			
	The universe	1:1	Angle of Insolation	Students will incorporate concepts and topics to everyday living.	
	Doppler Effect	1:2			
	The sun's family	4:1a, b, d, f-i			
	The moon	4:1.2a-g, i-j			
	Tidal Forces	4:2.1a-p			
The seasons	4:2.2a-d				
The Earth's crust	4:3.1a-c				
		7:1	Mount Saint Helen's		
	Parts of the Earth				
	Rocks and minerals				
	Continental drift				
	Plate tectonics				
	Plate boundaries				
	Volcanoes			Students will research current information.	
	Earthquakes				
	The role of <i>Nanotechnology</i>				
	Advancements in research				
	Cutting edge technologies				

\* Taken from Living Environment Core Curriculum

\*\* Taken from Physical Setting/Earth Science Core Curriculum

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

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<b>O C T O B E R</b>	The web of life	<b>LE Core*</b> 4.7.1a, 4.7.1c, 4.7.2 a-c, 4.7.3b	Model of the Biosphere	Distinguish differences between plant and animal cells, cell parts	Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.
	The sphere of life Biotic & Abiotic		Identifying Characteristics		
	Building blocks of life Cells			Design and use dichotomous keys to identify specimens	
	Life's varied roles	4.1.2a, 4.1.2 e - I, 4.1.3a	Role of Sunlight		
	The Roll Call	1.1.1b, 4.3.1.e, 4.3.1k	Food web/ Food chain	Students will incorporate concepts and topics to everyday living.	
	A place for everything Taxonomy		Endangered species		
	Five Kingdoms	4.1.1 a-c, 4.6.1a, 4.6.1e, 4.6.1g,		Research current information	
	Needs of Living Things		4.6.3b		
	Food Production	4.5.1 a-e, 4.6.1a			
	Chemical Energy				
Energy Supplies					
Aerobic/Anaerobic					
Predator /Prey					
Photosynthesis					

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<b>N O V E M B E R</b>	Moving Matter	<b>LE Core*</b> 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	Releasing stored energy	Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.	Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.
	Food chains and webs		Landfills		
	Terrestrial chains		Food webs / food chains		
	Marine chains		Biodegradable versus non-biodegradable		
	Decomposition	4.6.1 d - f	Elodea lab	Students will incorporate concepts and topics to everyday living.	
	Ecological pyramids				
	Number				
	Mass	<b>ES Core**</b> 4:1.2e, h	CO <sub>2</sub> Emissions	Students will research current information.	
	Productivity				
	Biomes				
The O-CO <sub>2</sub> cycle					
Oxygen & the biosphere	Global Warming	Loss of protected Species as well as their Habitats.			
Formation					
CO <sub>2</sub> & the biosphere					
Climate					
O- CO <sub>2</sub> cycle					

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<b>D E C E M B E R</b>	The Water Cycle	<b>ES Core**</b> 4:1.2g	Water treatment facilities	Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.	Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.
	Freshwater				
	Polar molecule				
	Cohesion				
	Surface tension				
	Capillary action				
	Evap. , Cond. & Precip.				
	Condensation nuclei				
	Water budget				
	Storage and Transport				
Global Climatic Change	<b>LE Core*</b> 1.1.1a - b, 4.2.2 a, 4.3.1a, 4.3.1 e - I,  4.3.1 f -h 4.3.1 d - e	Composting	Students will incorporate concepts and topics to everyday living.		
El Nino & La Nina		Assess effects of environmental changes on species	Students will research current information.		
Cycling Nitrogen and Phosphorous					
Cleaning the env. with <i>Nanotechnology</i>					
Cycling Nitrogen					
Recycled minerals					
Cycling Phosphorous					
The Changing Biosphere		<b>* Taken from Living Environment Core Curriculum</b>	Variation in peas		
Clues from the past					
Natural selection					
Survival					
Isolation	<b>** Taken from Physical Setting/Earth Science Core Curriculum</b>				
Diversity and mutation					

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<b>J A N U A R Y</b>	Jobs and Homes within the Biosphere	<b>LE Core*</b> 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  4.1.1a-c, 4.6.1a, 4.6.1e, 4.6.1g, 4.6.3b  4.1.1a-c, 4.6.1a, 4.6.1e, 4.6.1g, 4.6.3b  <b>* Taken from Living Environment Core Curriculum</b>  <b>** Taken from Physical Setting/Earth Science Core Curriculum</b>	Animal Habits	Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.	Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.
	Ecological Jobs		Deforestation / Reforestation		
	Adaptations				
	Ecological addresses				
	Home range				
	Competing for living space		Habitat Destruction		
	Competition		Competition on Plants		
	Territory				
	Env. Limits		Studying Lichens		
	Sharing resources		Biodiversity		
Nature's Partnerships			Students will incorporate concepts and topics to everyday living.		
Symbiosis			Students will research current information.		
Parasitism					
Interactions					
Social life					

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<b>F E B R U A R Y</b>	Changing Environment	<b>LE Core*</b>		Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.	Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.	
	Terrestrial Ecosystems	4.6.1a-g, 4.7.1a-b	Glacial Erosion			
	Aquatic Succession	<b>ES Core**</b>	Habitat Destruction	Students will incorporate concepts and topics to everyday living.		
	River Maturation					4:2.1r
	Other Env. Changes					
	Networks of Life	<b>LE Core*</b>	Landfills	Students will research current information.		
	Ecosystem Functions					
	Types of Ecosystems					
	Biotic Interactions					
	Abiotic Environment	4.1.1a-c, 4.6.1a, 4.6.1e, 4.6.1g, 4.6.3b	Micro ecosystems			
The Forest Biomes	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					
Coniferous Forest						
Deciduous Forest						
Tropical Rain Forest						
Temperate Rain Forest						
Global Warming						
The study of the						
Interactions between Plants and animals in a Changing biome.						

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<b>MARCH</b>	Lands of limited Water The Tundra Biome Seas of Grass Deserts The Dry Chaparral Higher and Colder	<b>LE Core*</b> 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	Making a Topographic Map	Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.	Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.
	Freshwater Biomes Groundwater Standing Water Flowing Water	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	Sedimentation	Students will incorporate concepts and topics to everyday living.	
	Saltwater Biomes The Marine Env. Sandy Beaches Along Rocky Shores Wetlands The Ocean Waters	<b>ES Core**</b> <b>4:2.1u</b>  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	Effect of Salt on Water Density	Students will research current information.	

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

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

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

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<b>J U N E</b>	Protecting Wildlife and the Environment Preserving Biodiversity Conservation of Wildlife Maintaining the Biosphere	<b>LE Core*</b> 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  <b>ES Core</b> 6:6 7:2	Observing Birds	Students will use mathematical analysis, scientific inquiry and engineering design, to pose questions, seek answers and develop solutions.	Written assessment which encompasses problem solving, comprehension, synthesis and evaluation of performance.
	Food For All World Food Resources Increasing Productivity Greening America		Chemical Fertilizers	Students will incorporate concepts and topics to everyday living.	
	The Population Explosion Standing Room Only Managing the Pop. Spaceship Earth World Health Crisis		Graphing Population Trends	Graphing  Students will research current information.	

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