



Alignment and Connections to the Maryland Environmental Literacy Standards  
MCPS PreK to Grade 5 Elementary Integrated Curriculum 2.0 Calendar Topics and Concepts



Key to Calendar			HE= Health Education
SERT Topic	MD Green School Certification Topic	Possible SERT or MDGS Connection	SS= Social Studies
			STE= Science, Technology & Engineering

**Pre-K to Grade 5 Curriculum 2.0 Calendar Marking Period 1**

MP1	Pre K	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1 <sup>st</sup> week	N/A	STE= Weather observations & routines	SS=Rules & choices: clean, safe home, environment	SS=Rights, responsibilities & democratic ideas	SS= Practices associated with democratic principles	HE=Decision making process SS=Maryland & US: geographic settlement patterns	HE= Personal decisions Stress management skills SS= Causes of contemporary conflict and compromises
2 <sup>nd</sup> week	N/A	STE= Weather observations: conditions & changes Weather impact on daily activities	SS=Rights & responsibilities: choices STE=Plants & animals: comparisons	SS=Rights, responsibilities & democratic ideas STE=Earth Materials: rocks & soil	SS=Roles & responsibilities of effective citizens	SS=Maryland & US: geographic settlement patterns STE=Basic needs of plants, Diversity of plants & animals in environments	N/A
3 <sup>rd</sup> week	N/A	STE= Weather observations: conditions & changes Weather impact on daily activities	SS=Rights & responsibilities: choices STE=Animals: features & basic needs	SS=Rights, responsibilities & democratic ideas STE=Earth Materials: water	SS=Individual & group contributions & the common good	SS=Maryland & US: geographic settlement patterns STE=Basic needs of plants, Classification of plants & animals	N/A
4 <sup>th</sup> week	N/A	STE= Weather observations: conditions & changes Weather impact on daily activities	STE=Animals: features & basic needs	SS=Multiple perspectives: conflict and compromise STE=Earth Materials: water	SS=Government leaders & democratic practices	STE=Basic needs of plants, Flow of sun's energy to plants & animals	N/A
5 <sup>th</sup> week	N/A	STE= Weather observations: conditions & changes Weather impact on daily activities	STE=Plants: features & basic needs	SS= Organizations and leaders help the community STE=Earth Materials: water & atmosphere	N/A	STE=Interaction of organisms with environment, Flow of matter w/in ecosystem	N/A
6 <sup>th</sup> week	N/A	STE= Weather observations: conditions & changes Weather impact on daily activities	STE=Animals: classification, need for food	SS=Democratic skills and attitudes STE=Earth Materials: water & atmosphere	SS=Services provided by the government & businesses	STE=Organisms interact with each other & environment	N/A
7 <sup>th</sup> week	N/A	STE= Weather observations: conditions & changes Weather impact on daily activities	STE=Animals: classification, need for food	SS=Democratic skills and attitudes STE= Earth's surface: natural features of continents	SS=Goods provided by the government & businesses	STE=Flow of matter & energy among organisms w/in ecosystem	STE=Energy: forms of energy, potential & kinetic energy, conversion of energy
8 <sup>th</sup> week	N/A	STE= Weather patterns: clouds, water cycle	STE=Animals: body parts	SS=Effects of personal choices STE=Earth's Surface: Maryland	SS=Services & goods provided by individuals or businesses	STE=Features & behaviors help organisms survive in an environment	STE=Energy: forms of energy, potential & kinetic energy, conversion of energy
9 <sup>th</sup> week	N/A	STE= Weather patterns: seasonal changes	STE=Animals: body parts	STE=Earth's Surface: ocean floor	N/A	STE=Features & behaviors help native organisms survive in Maryland	STE=Energy: forms of energy, potential & kinetic energy, conversion of energy



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**Pre-K to Grade 5 Curriculum 2.0 Calendar Marking Period 2**

MP2	PreK	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1 <sup>st</sup> week	N/A	STE=Plants: seasonal change	HE=Litter: harmful effects, prevention	HE=Health issues created by pollution	HE=Behaviors that promote health STE=Conservation of matter, Characteristics & scope of technology	HE=Consumer health issues STE= Survival & reproduction of organisms in different habitats	STE=Static electricity
2 <sup>nd</sup> week	Theme 3 Week 1 Energy: heat, light Responsibility: cleaning, recycling	STE=Plants: seeds, basic needs SS=Model of the Earth Physical features: landforms	N/A	N/A	STE=Conservation of matter, Characteristics & scope of technology SS=Geographic characteristics today & past: Montgomery County	STE=Characteristics contributing to survival & reproduction of organisms SS= Economics today: specialization& interdependence; opportunity cost & decision making	STE=Electrical energy: circuits
	Theme 3 Week 2 Energy: electricity, heat, light	STE=Plants SS=Physical features: landforms & water	N/A	SS=Geographic characteristics: regions	STE=Changes to physical properties of materials, Human needs influence technology SS=Geographic characteristics US & North America	STE=Changes to the natural environment: beneficial & harmful consequences SS= Economics today:specialization& interdependence; opportunity cost & decision making	STE=Electrical energy: circuits
4 <sup>th</sup> week	N/A	STE=Plants SS=Physical & human-made features	N/A	SS=Geographic characteristics: regions	STE=Changes to physical properties of materials, Human needs influence technology SS=Places and regions in the world: natural & physical features	Changes to the natural environment: beneficial & harmful SS= Economics today:specialization& interdependence; opportunity cost & decision making	STE=Electrical energy: circuits, conduction
5 <sup>th</sup> week	Theme 3 Week 4 Environmental awareness Responsibility: recycle, reuse, water usage	STE= Animals: basic needs SS=Human-made features	STE= Effects of magnets on objects	SS=People modify the environment People protect the environment	STE=Changes to physical properties of materials, Human needs influence technology SS=Geographic characteristics: African regions	STE=Environmental issues: Earth's natural resources & human actions, Experimentation to solve technological problems SS= Economics today:specialization& interdependence; opportunity cost & decision making	STE=Magnetism: magnetic forces
6 <sup>th</sup> week	Theme 4 Week 1 Understanding basic needs	STE= Animals SS=Physical & human-made features	STE= Effects of magnets on objects	SS=Ways people meet human needs, Geographic characteristics guide human choices	STE=Temperature effects on physical properties of materials: heating, Technology used to create products SS=People adapt to the environment: Africa, People modify the environment: Africa	STE=Environmental issues: individual/ group decisions that harm or help the environment, Experimentation to solve technological problems	STE= Electromagnets, Engineering Design Process
7 <sup>th</sup> week	Theme 4 Week 2 Investigate the environment	STE= Animals SS=Physical & human-made features	STE= Effects of magnets on objects	SS=Ways people meet human needs, Geographic characteristics guide human choices	STE=Temperature effects on physical properties of materials: cooling, Technology used to create products SS=People adapt to the environment: Africa, People modify the environment: Africa	STE=Human activities in Maryland impact the environment, Experimentation to solve technological problems	STE=Magnetism: magnetic forces Forces: wave energy Engineering Design Process
8 <sup>th</sup> week	Theme 4 Week 3 Investigate the environment: living things	STE= Animals SS=Modifying and adapting to the environment	STE= Materials: classify using magnets	SS=Ways people meet human needs Ways people in the community pass on and share traditions and customs	STE=Temperature effects on physical properties of materials: heating/ cooling, Technology used to create products SS=African cities: change in geographic characteristics & human activity over time	STE=Human activities in Maryland impact the environment, Experimentation to solve technological problems	STE=Forces: wave energy Characteristics and scope of technology
9 <sup>th</sup> week	Theme 4 Week 3	SS=	N/A	SS=Ways people meet human needs	SS=People protect their environment	HE=Safety rules: electricity	N/A



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Investigate the environment: living things	Modifying and adapting to the environment		Ways people in the community pass on and share traditions and customs			
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**PreK to Grade 5 Curriculum 2.0 Calendar Marking Period 3**

MP3	PreK	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1 <sup>st</sup> week	N/A	STE=Plants & animals: basic needs HE=Food sources: plant, animal	STE=Natural features of Earth's surface	N/A	STE=Production of heat Characteristics & scope of technology	STE= Weather conditions Characteristics & scope of technology	STE=Wave energy: light Impact of products & systems
2 <sup>nd</sup> week	N/A	STE=Plants found in MD	STE=Natural features of Earth's surface SS=Physical characteristics of a place	SS=Technology affects daily life	STE=Production of heat, Impact of products & systems SS=North America: location & geography	STE= Weather conditions Properties of water on Earth Characteristics & scope of technology	STE=Astronomy: celestial patterns, light & shadow
3 <sup>rd</sup> week	Theme 5 Week 2 Natural & human-made materials	STE=Animals found in MD	STE=Changes in the natural environment SS=human-made features	SS=Transportation: past & present	STE=Production of heat, Impact of products & systems	STE= Weather conditions Properties of matter Characteristics & scope of technology	STE=Astronomy: properties & patterns of Earth & stars
4 <sup>th</sup> week	Theme 5 Week 3 Investigate Earth materials	STE=Plants & animals in various habitats SS=Resources used to make products	STE=Natural & human-made objects in the environment SS=human-made features	SS=Production process: natural, capital, and human resources	STE=Production of heat, Impact of products & systems SS= People modify the environment: Tenochtitlan	STE= Weather conditions Properties of matter Characteristics & scope of technology	STE=Astronomy: Earth's relationship to the Sun
5 <sup>th</sup> week	Theme 5 Week 4 Investigate Earth materials	STE=Plants & animals: classification SS=Resources used to make products	STE=Natural & human-made objects in the environment SS=Modifying the environment	SS=Production process: natural, capital, and human resources Goods and services: business vs. government	STE=Production of heat & energy Engineering design process: ideas SS=Transportation networks link places: Tenochtitlan	STE= Weather conditions Conservation of matter Characteristics & scope of technology	STE=Astronomy: characteristics of Earth and other planets
6 <sup>th</sup> week	N/A	STE=Animal classification	STE=Natural & human-made objects in the environment SS=Environment: protecting	SS= Goods and services: business vs. government	STE=Heat transfer Engineering design process: ideas SS=Reasons for movement of people: Tenochtitlan and modern Mexico City	STE= Weather conditions Characteristics & scope of technology	STE=Astronomy: characteristics of celestial bodies
7 <sup>th</sup> week	Theme 6 Week 2 Environmental awareness: water usage, reduce, reuse, recycle	STE=Features of plants and animals	STE=Natural & human-made objects in the environment SS=Environment: protecting	SS=Economic decision making skills: Making informed decisions	STE=Heat transfer Engineering design process: models for solutions SS=Sharing of cultures: Tenochtitlan and modern Mexico City	STE= Weather conditions Characteristics & scope of technology	STE=Influence & impact of space exploration on technology
8 <sup>th</sup> week	N/A	N/A	STE=Materials used to make human-made objects SS=Environment: protecting	SS=Production process: natural, capital, and human resources Economic decision making: Making informed decisions	STE=Heat transfer Engineering design process: design evaluation & improvement	STE= Weather conditions Characteristics & scope of technology	STE=Properties of light: pathways & interactions with materials
9 <sup>th</sup> week	N/A	N/A	SS=Environment: protecting	SS=Economic decision making: Making informed decisions	N/A	N/A	N/A



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MP4	PreK	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1 <sup>st</sup> week	N/A	SS=Meeting wants & needs	SS=Natural & human resources to produce a good	SS=Contributions of school, community & government leaders	SS=Acquiring goods & services	N/A	SS= Goods & services produced in Maryland: past & present
2 <sup>nd</sup> week	Theme 7 Week 1 Understanding basic needs Environmental awareness: plants	SS=Meeting wants & needs	SS=Natural & human resources to produce a good STE=Human wants & needs, natural resources	SS=Contributions of community & government leaders, Democratic beliefs & attitudes represented by people recognized by holidays STE=Comparisons of plant & animal basic needs & life cycles	STE=Natural resources & human needs, Characteristics & scope of technology SS=Decision making & opportunity cost	N/A	SS= Technological changes: impacts on consumers & businesses
3 <sup>rd</sup> week	Theme 7 Week 2 Investigate environment: sky	STE= Animals: external features	SS=Technology: tools & products STE=Sources & devices that use electricity	SS=American leaders, innovators & heroes STE=Comparisons of plant & animal basic needs & life cycles	STE=Natural resources & human needs, Characteristics & scope of technology	STE= Parts & combinations of materials SS= Responsibilities of citizens Public policy issues in Maryland Civic participation	SS= Technological changes: impact on consumers & businesses Technological changes: the global market STE= Multicellular organisms: plant & animal cells
4 <sup>th</sup> week	Theme 7 Week 3 Understanding basic needs Investigate environment: weather	STE= Animals: adaptations	SS=Technology: tools & products STE=Human actions that Harm the environment	SS=American leaders, innovators & heroes STE=Comparisons of plant & animal basic needs & life cycles	STE=Natural resources & human needs, Characteristics & scope of technology SS=Limited resources: producer choices	STE= Properties of rocks & minerals	STE= Multicellular organisms: specialized cells
5 <sup>th</sup> week	Theme 7 Week 3 Investigate environment: weather & people	STE= Plants: adaptations	STE=Human actions that conserve natural resources	SS=American leaders, innovators & heroes STE=Comparisons of plant & animal basic needs & life cycles	STE=Natural resources & human needs, Effects of technology on the environment SS=Limited resources: producer choices	STE=Fossils as evidence of Earth's history	STE= Unicellular organisms Use of technology: microscopes
6 <sup>th</sup> week	Theme 8 Week 1 Investigate environment: geographical features	STE=Plants & animals within an environment	STE=Human actions that help the environment	SS=American leaders, innovators & heroes STE=Comparisons of familiar animal populations	STE=Flow of matter & energy: recycling, Effects of technology on the environment SS=Increasing production: specialization in global markets	STE= Fossils as evidence of Earth's history Properties of rocks & minerals	N/A
7 <sup>th</sup> week	N/A	STE=Plants & animals within an environment	STE=Human actions that help the environment	SS=American leaders, innovators & heroes	STE=Flow of matter & energy: recycling, Effects of technology on the environment SS=Production process & technology in global markets	STE=Changes to Earth's surface weathering & erosion	N/A
8 <sup>th</sup> week	N/A	STE=Adaptation: animals to their environment	STE=Solutions to conserve resources and protect the environment	SS= Relationships of events over time	STE=Flow of matter & energy: decomposition, Effects of technology on the environment	STE= Changes to Earth's surface Application of engineering design process Impact and use of technology	N/A



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9 <sup>th</sup> week	N/A	STE=Adaptation: animals to their environment	STE=Solutions to conserve resources and protect the environment	SS=Relationships of events over time	STE=Flow of matter & energy: decomposition, Effects of technology on the environment	STE= Changes to Earth's surface Application of engineering design process Impact and use of technology	N/A
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