

Environmental Science (½ credit)

TERM 1	
Term 1 Dates	MS College and Career Readiness Standards
WK 1:	SCIENCE and ENGINEERING PRACTICES
Aug 6-16	Ask Question and Define Problems
	Develop and Use Models
	Analyze and Interpret Data Dep and Conduct Investigations
	Plan and Conduct Investigations Lise Mathematical and Computational Thinking
	• Engage in Scientific Argument from Evidence
	Construct Explanations and Design Solutions
	Obtain, Evaluate, and Communicate Information
WK 2:	ENV.1.1 Identify, investigate, and evaluate the interactions of the abiotic and biotic factors
Aug 19-23	that determine the types of organisms that live in major biomes.
	ENV.1.2 Evaluate evidence in nonfiction text to explain how biological or physical changes
	within biomes affect populations and communities and how changing conditions may
	result in altered ecosystems.
	ENV.1.5 Develop and use models to diagram the flow of nitrogen, carbon, and phosphorus
	through the environment.
	Unit Assessment 1
WK 3:	ENV.1.3 Use models to explain why the flow of energy through an ecosystem can be
Aug 26-30	illustrated by a pyramid with less energy available at the higher trophic levels compared to
	lower levels.
WK 4:	ENV.1.4 Describe symbiotic relationships (e.g., mutualism, parasitism, and commensalism)
Sept 2-6	and other coevolutionary (e.g., predator-prey, cooperation, competition, and mimicry)
	relationships within specific environments.
	Mid-term OR Unit Assessment 2 (WK 4.5/ WK 5)
WK 5:	ENV.1.6 Use mathematics, graphics, and informational text to determine how population
Sept 9-13	density-dependent and density-independent limiting factors affect populations and
	diversity within ecosystems. Use technology to illustrate and compare a variety of
WK 6:	population-growth curves.
Sept 16-20	ENV.1.7 Analyze and interpret quantitative data to construct explanations of how the
	carrying capacity of an ecosystem may change as the availability of resources changes.
	ENV.1.8 Utilize data to communicate changes within a given population and the
	environmental factors that may have impacted these changes (e.g., weather patterns,
	natural disasters).
Unit Assessment 3	

WK 7:	ENV.1.9 Evaluate and communicate data that explains how human activity may impact
Sept 23-27	biodiversity (e.g., introduction, removal, and reintroduction of an organism within an
	ecosystem; land usage) and genetic variations of organisms, including endangered and
	threatened species.
	ENV.1.10 Enrichment: Engage in scientific argument from evidence the benefits versus
	harm of genetically modified organisms.*
WK 8:	Review for Assessment
Sept 30- Oct 4	
WK 9:	Benchmark OR Unit Assessment
Oct 7-11	

TERM 1	
Recurring Standards	
Standards taught the first 4-5 weeks; the mid-term data will indicate the remediation needed.	
WK 5:	Science Engineering Practices
Sept 9-13	
WK 6:	ENV.1.1, ENV.1.2 & ENV.1.5
Sept 16-20	
WK 7:	ENV.1.3 & ENV.1.4
Sept 23-27	



Environmental Science (1/2 credit)

TERM 2	
Term 2 Dates	MS College and Career Readiness Standards
WK 1:	ENV.2.1 Differentiate between renewable and nonrenewable resources, and
Oct 14-18	compare and contrast the pros and cons of using these resources.
	ENV.2.2 Investigate and research the pros and cons of using traditional sources of
WK 2:	energy (e.g., fossil fuels) and alternative sources of energy (e.g., water, wind,
Oct 21-25	geothermal, biomass/biofuels, solar).
	Unit Assessment 1
WK 3:	ENV.2.3 Compare and contrast biodegradable and nonbiodegradable wastes and their
Oct 28- Nov 1	significance in landfills.
	ENV.2.4 Examine solutions for developing, conserving, managing, recycling, and reusing
	energy and mineral resources to minimize impacts in natural systems (e.g., agricultural soil
	use, mining for coal, construction sites, and exploration of petroleum and natural gas
WK 4:	sources).
Nov 4-8	ENV.2.5 Research various resources related to water quality and pollution (e.g.,
	non-fictional text, EPA's Surf Your Watershed, MDEQ publications) and communicate the
	possible effects on the environment and human health.
	ENV.2.6 Enrichment: Obtain water from a local source (e.g., stream on campus, rainwater,
	ditch water) to monitor water quality over time, using a spreadsheet program to
	graphically represent collected data.*
	Mid-term OR Unit Assessment 2 (WK 4.5/ WK 5)
WK 5:	ENV.3.1 Use a model to describe cycling of carbon through the ocean, atmosphere, soil,
Nov 11-15	and biosphere and how increases in carbon dioxide concentrations have resulted in
	atmospheric and climate changes.
	ENV.3.2 Interpret data and climate models to predict how global and regional climate
WK 6:	change can affect Earth's systems (e.g., precipitation, temperature, impacts on sea level,
Nov 18-22	global ice volumes, and atmosphere and ocean composition).
	ENV.3.3 Use satellite imagery and other resources to analyze changes in biomes over time
	(e.g., glacial retreat, deforestation, desertification) and propose strategies to reduce the
	impact of human activities leading to these issues.
	ENV.3.4 Enrichment: Determine mathematically an individual's impact on the environment
	(carbon footprint, water usage, landfill contribution) and develop a plan to reduce personal
	contribution.
Unit Assessment 3	
WK 7:	ENV.4.1 Identify human impact and develop a solution for protection of the atmosphere,
Dec 2-6	considering pollutants (e.g., acid rain, air pollution, smog, ozone layer, or increased levels
	of greenhouse gases) and the impacts of pollutants on human health (e.g., asthma, COPD,

	emphysema, and cancer).
	ENV.4.2 Evaluate data and other information to explain how key natural resources (e.g.,
WK 8:	water sources, fertile soils, concentrations of minerals, and fossil fuels), natural hazards,
Dec 9-13	and climate changes influence human activity (e.g., mass migrations, human health).
	ENV.4.3 Enrichment: Research and analyze case studies to determine the impact of
	human-related and natural environmental changes on human health and communicate
	possible solutions to reduce/resolve the dilemma.*
	ENV.4.4 Enrichment: Explore online resources related to air pollution to determine air
	quality in a geographic area and communicate the possible effects on the environment and
	human health.*
	ENV.4.5 Enrichment: Research and communicate regarding geoscience career options (e.g.,
	geologist, petroleum engineer, meteorologist, paleontologist, astronomer, and
	oceanographer.
Unit Assessment 4 optional due to BMA	
WK 9:	Benchmark OR EOC Assessment
Dec 16-20	

TERM 2	
Recurring Standards	
Standards taught the first 4-5 weeks; the mid-term data will indicate the remediation needed.	
WK 5:	ENV.2.1 & ENV.2.2
Nov 11-15	
WK 6:	ENV.2.3 & ENV.2.4
Nov 18-22	
WK 7:	ENV.2.5 & ENV.2.6
Dec 2-6	



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TERM 3	
Term 3 Dates	MS College and Career Readiness Standards
WK 1:	n/a; ½ credit course
Jan 6-10	
WK 2:	n/a; ½ credit course
Jan 13-17	
WK 3:	n/a; ½ credit course
Jan 20-24	
WK 4:	n/a; ½ credit course
Jan 27-31	
Mid-term OR Unit Assessment 2 (WK 4.5/ WK 5)	
WK 5:	n/a; ½ credit course
Feb 3-7	
WK 6:	n/a; ½ credit course
Feb 10-14	
	Unit Assessment 2
WK 7:	n/a; ½ credit course
Feb 17-21	
WK 8:	n/a; ½ credit course
Feb 24-28	
Unit Assessment 4 optional due to BMA	
WK 9:	Review & Benchmark OR Unit Assessment
March 3-7	

TERM 3	
Recurring Standards	
WK 5: Feb 3-7	n/a; ½ credit course
WK 6: Feb 10-14	n/a; ½ credit course
WK 7: Feb 17-21	n/a; ½ credit course

Pacing Guide 2024-2025 School Year

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TERM 4	
Term 4 Dates	MS College and Career Readiness Standards
WK 1:	TBD using Benchmark/ Unit Assessment data and/or
March 17-21	remediation time needed for other grade level tested areas
Checkpoint 1	
WK 2:	TBD using Benchmark/ Unit Assessment data and/or
March 24-28	remediation time needed for other grade level tested areas
Checkpoint 2	
WK 3:	TBD using Benchmark/ Unit Assessment data and/or
March 31- April 4	remediation time needed for other grade level tested areas
Checkpoint 3	
WK 4:	TBD using Benchmark/ Unit Assessment data and/or
April 7-11	remediation time needed for other grade level tested areas
	Checkpoint 4
WK 5:	N/A; benchmark testing
April 14-18	
WK 6:	N/A; benchmark testing
April 21-25	
WK 7:	N/A; benchmark testing
April 28- May 2	
WK 8:	N/A; benchmark testing
May 5-9	
WK 9:	Review & EOY Assessment
May 12-21	

TERM 4	
Recurring Standards	
Standards taught the first 4-5 weeks; the mid-term data will indicate the remediation needed.	
WK 5:	N/A; benchmark testing
April 14-18	
WK 6:	N/A; benchmark testing
April 21-25	
WK 7:	N/A; benchmark testing
April 28- May 2	