

TERM 1	
Term 1 Dates	MS College and Career Readiness Standards
WK 1: Aug 6-16	<ul> <li>Science &amp; Engineering Practices</li> <li>Ask Question and Define Problems</li> <li>Develop and Use Models</li> <li>Analyze and Interpret Data</li> <li>Plan and Conduct Investigations</li> <li>Use Mathematical and Computational Thinking</li> <li>Engage in Scientific Argument from Evidence</li> <li>Construct Explanations and Design Solutions</li> <li>Obtain, Evaluate, and Communicate Information</li> </ul>
WK 2: Aug 19-23	<ul> <li>L.7.3.1 Analyze diagrams to provide evidence of the importance of the cycling of water, oxygen, carbon, and nitrogen through ecosystems to organisms.</li> <li>L.7.3.4 Explain how disruptions in cycles (e.g., water, oxygen, carbon, and nitrogen) affect biodiversity and ecosystem services (e.g., water, food, and medications) which are needed to sustain human life on Earth.</li> </ul>
Aug 26-30	and the resources needed by humans for survival (e.g., water purification, nutrient recycling, prevention of soil erosion, and prevention or management of invasive species).*
WK 4: Sept 2-6	<ul> <li>L.7.3.2 Analyze and interpret data to explain how the processes of photosynthesis, and cellular respiration (aerobic and anaerobic) work together to meet the needs of plants and animals.</li> <li>L.7.3.3 Use models to describe how food molecules (carbohydrates, lipids, proteins) are processed through chemical reactions using oxygen (aerobic) to form new molecules</li> </ul>
Mid-term OR Unit Assessment 2 (WK 4.5/ WK 5)	
WK 5: Sept 9-13	<b>P.7.5D.1</b> Analyze evidence from scientific investigations to predict likely outcomes of chemical reactions.
WK 6: Sept 16-20	<b>P.7.5D.2</b> Design and conduct scientific investigations to support evidence that chemical reactions (e.g., cooking, combustion, rusting, decomposition, photosynthesis, and cellular respiration) have occurred
Unit Assessment 3	
WK 7: Sept 23-27	<b>E.7.9A.1</b> Analyze and interpret weather patterns from various regions to differentiate between weather and climate.

	E.7.9A.2 Analyze evidence to explain the weather conditions that result from the
	relationship between the movement of water and air masses
WK 8:	Review for benchmark
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:	L.7.3.1 & L.7.3.4
Sept 9-13	
WK 6:	L.7.3.5
Sept 16-20	
WK 7:	L.7.3.2 & L.7.3.3
Sept 23-27	



TERM 2	
Term 2 Dates	MS College and Career Readiness Standards
WK 1:	E.7.9A.1 Analyze and interpret weather patterns from various regions to differentiate
Oct 14-18	between weather and climate.
	<b>E.7.9A.2</b> Analyze evidence to explain the weather conditions that result from the
	relationship between the movement of water and air masses.
WK 2:	<b>E.7.9A.3</b> Interpret atmospheric data from satellites, radar, and weather maps to predict
Oct 21-25	weather patterns and conditions.
	Unit Assessment 1
WK 3:	E.7.9A.4 Construct an explanation for how climate is determined in an area using global
Oct 28- Nov 1	and surface features (e.g. latitude, elevation, shape of the land, distance from water, global
	winds and ocean currents).
WK 4:	<b>E.7.9A.5</b> Analyze models to explain the cause and effect relationship between solar energy
Nov 4-8	and convection and the resulting weather patterns and climate conditions.
Mid-term OR Unit Assessment 2 (WK 4.5/ WK 5)	
WK 5:	E.7.9A.6 Research and use models to explain what type of weather (thunderstorms,
Nov 11-15	hurricanes, and tornadoes) results from the movement and interactions of air masses, high
	and low pressure systems, and frontal boundaries.
	<b>E.7.9A.7</b> Interpret topographic maps to predict how local and regional geography affect
	weather patterns and make them difficult to predict.
WK 6:	<b>E.7.9B.1</b> Read and evaluate scientific or technical information assessing the evidence and
Nov 18-22	bias of each source to explain the causes and effects of climate change.
	<b>E.7.9B.2</b> Interpret data about the relationship between the release of carbon dioxide from
	burning fossil fuels into the atmosphere and the presence of greenhouse gases.
	<b>E.7.9B.3</b> Engage in scientific argument based on current evidence to determine whether
	climate change happens naturally or is being accelerated through the influence of man.
	Unit Assessment 3
WK 7:	<b>E.7.9C.1</b> Construct models and diagrams to illustrate how the tilt of Earth's axis results in
Dec 2-6	differences in intensity of sunlight on the Earth's hemispheres throughout the course of
	one full revolution around the Sun
	<b>E.7.9C.2</b> Investigate how variations of sunlight intensity experienced by each hemisphere
	(to include the equator and poles) create the four seasons.
WK 8:	Review for benchmark
Dec 9-13	
Unit Assessment 4 optional due to BMA	
WK 9:	Benchmark OR Unit 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:	E.7.9A.1 & E.7.9A.2
Nov 11-15	
WK 6:	E.7.9A.3
Nov 18-22	
WK 7:	E.7.9A.4 & E.7.9A.5
Dec 2-6	



TERM 3		
Term 3 Dates	MS College and Career Readiness Standards	
WK 1:	P.7.5A.1 Collect and evaluate qualitative data to describe substances using physical	
Jan 6-10	properties (state, boiling/melting point, density, heat/electrical conductivity, color, and	
	magnetic properties).	
	<b>P.7.5A.2</b> Analyze and interpret qualitative data to describe substances using chemical	
	properties (the ability to burn or rust).	
	<b>P.7.5A.3</b> Compare and contrast chemical and physical properties (e.g., compustion,	
14/1/ 2.	DZ EP 1 Make predictions about the effect of temperature and pressure on the relative	
VVK 2:	<b>P.7.3B.1</b> Make predictions about the effect of temperature and pressure on the relative motion of atoms and molecules (speed, expansion, and condensation) relative to recent	
Jall 12-17	breakthroughs in polymer and materials science (e.g. self-bealing protective films, silicone	
	computer processors, pervious/porous concrete)	
	<b>P.7.5B.2</b> Use evidence from multiple scientific investigations to communicate the	
	relationships between pressure, volume, density, and temperature of a gas.	
	<b>P.7.5B.3</b> Ask questions to explain how density of matter (observable in various objects) is	
	affected by a change in heat and/or pressure.	
	Unit Assessment 1	
WK 3:	<b>P.7.5C.3</b> Collect, organize, and interpret data from investigations to identify and analyze the	
Jan 20-24	relationships between the physical and chemical properties of elements, atoms, molecules,	
	compounds, solutions, and mixtures.	
WK 4:	<b>P.7.5C.4</b> Predict the properties and interactions of elements using the periodic table	
Jan 27-31	(metals, non-metals, reactivity, and conductors).	
	Mid-term OR Unit Assessment 2 (WK 4.5/ WK 5)	
WK 5:	<b>P.7.5C.5</b> Describe concepts used to construct chemical formulas (e.g. CH4, H20) to	
Feb 3-7	determine the number of atoms in a chemical formula.	
	<b>P.7.5C.6</b> Using the periodic table, make predictions to explain how bonds (ionic and	
	covalent) form between groups of elements (e.g., oxygen gas, ozone, water, table sait, and	
	<b>P7 ED 4</b> Ruild a model to explain that chemical reactions can store (formation of hends) or	
Feb 10-1/	release energy (breaking of bonds)	
	<b>P.7.5D.1</b> Analyze evidence from scientific investigations to predict likely outcomes of	
	chemical reactions.	
	Unit Assessment 3	

WK 7: Feb 17-21	<b>P.7.5D.3</b> Collect, organize, and interpret data using various tools (e.g., litmus paper, pH paper, cabbage juice) regarding neutralization of acids and bases using common substances.
WK 8: Feb 24-28	Review for benchmark
	Unit Assessment 4 optional due to BMA
WK 9:	Review & Benchmark OR Unit Assessment
March 3-7	

TERM 3	
Recurring Standards	
Sta	ndards taught the first 4-5 weeks; the mid-term data will indicate the remediation needed.
WK 5:	P.7.5A.1 & P.7.5A.2
Feb 3-7	
WK 6:	P.7.5A.3 & P.7.5B.1
Feb 10-14	
WK 7:	P.7.5B.2 & P.7.5B.3
Feb 17-21	



TERM 4	
Term 4 Dates	MS College and Career Readiness Standards
WK 1:	P.7.5E.1 Conduct simple scientific investigations to show that total mass is not altered
March 17-21	during a chemical reaction in a closed system. Compare results of investigations to
	Antoine-Laurent Lavoisier's discovery of the law of conservation of mass.
	<b>P.7.5E.2</b> Analyze data from investigations to explain why the total mass of the product in an
	open system appears to be less than the mass of reactants.
	P.7.5E.3 Compare and contrast balanced and unbalanced chemical equations to
	demonstrate the number of atoms does not change in the reaction.
Unit Assessment 1	
WK 2:	TBD using Benchmark/ Unit Assessment data and/or
March 24-28	remediation time needed for other grade level tested areas
	Checkpoint 1
WK 3:	TBD using Benchmark/ Unit Assessment data and/or
March 31- April 4	remediation time needed for other grade level tested areas
	Checkpoint 2
WK 4:	TBD using Benchmark/ Unit Assessment data and/or
April 7-11	remediation time needed for other grade level tested areas
	Checkpoint 3
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	
Sta	indards taught the first 4-5 weeks; the mid-term data will indicate the remediation needed.
WK 5:	P.7.5E.1, P.7.5E.2 & P.7.5E.3
April 14-18	
WK 6:	N/A; benchmark testing
April 21-25	
WK 7:	N/A; benchmark testing
April 28- May 2	