Timeline	Next Generation Science Standard	Learning Targets	Vocabulary	Assessment
September/ October	MS.PS1.1 Structures and Properties of Matter - Develop models to describe the atomic composition of simple molecules and extended structures.	I CAN develop models to describe the atomic composition of simple molecules and extended structures. Develop a model to predict and/or describe phenomena.	Atom Boiling Point Color Crystals Density Flammability Gas Liquid Mass Matter Melting Point Metric Units Mixture	Lab report Test/Quiz Written Work Vocab activities Foldable
			Molecules Odor Solid Solubility Solution Volume	
October	MS-PS1-4 Develop a model that predicts and describes changes in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.	I CAN develop a model to show and describe the result when thermal energy is added or removed. Develop a model to predict and/or describe phenomena.	Chemical change Heat Kinetic Energy Phase Change Physical change Temperature	Test/Quiz Written Work Model Exit Tickets

	MS-PS1-2 Analyze	I CAN analyze and interpret data to determine if a chemical	Acid/Base	Lab report
	and interpret data on	reaction has occurred.	Balanced	
	the properties of		Compound	Test/Quiz
	substances before and	Analyze and interpret data to determine similarities and	Element	
	after the substances	differences in findings.	Equation	Written
October/	interact to determine		Families	Work
November	if a chemical reaction		Groups	
November	has occurred.		Metal/ Nonmetals	Foldable
			Periodic Table	
			Product	
			Reactant	
			Reaction	
			Variable	
	MS-PS1-5 Develop	I CAN develop and use a model to describe that mass is	Chemical Reactions	Lab report
	and use a model to	converted.	Conservation Of	
	describe how the total		Mass And Matter	Test/Quiz
	number of atoms does	Develop a model to describe unobservable mechanisms	Mass	
	not change in a		Molecules	Written
November	chemical reaction and		Products	Work
	thus mass is		Reactants	
	conserved.			Notebook
				36.11
	MC DC1 (II I 4 I	ICAN I ' I I I I I I I I I I I I I I I I I	Г	Model
Name to a	MS-PS1-6 Undertake	I CAN design and test a device that either releases or absorbs	Energy	Lab report
	a design project to	thermal energy by chemical processes.	Scientific Method	Tast/Oni-
	construct, test, and	Hadantaka a dasian musikat angasing in the dasian angala ta		Test/Quiz
November/	modify a device that either releases or	Undertake a design project, engaging in the design cycle, to		Written
December	absorbs thermal	construct and/or implement		Written Work
				WOIK
	energy by chemical			
	processes.			

December/ January	MS-PS1-3 Gather and make sense of nformation to describe that synthetic materials come from natural resources and mpact society.	I CAN gather and use information to describe that synthetic materials come from natural resources and impact our society. Gather, read, and synthesize information from multiple appropriate sources and assess the credibility, accuracy, and possible bias of each publication and methods used, and describe how they are supported or not supported	Natural Synthetic	Scientific Articles Exit tickets
in p li o o o n	MS-LS1-1 Conduct an nvestigation to provide evidence that iving things are made of cells; either one cell or many different numbers and types of cells.	I CAN conduct an investigation to provide evidence that living things are made of cells. Conduct an investigation to produce data to serve as the basis for evidence that meet the goals of an investigation.	Animal Cells Anton Van Leeuwenhoek Cell Cell Membrane Cell Theory Cell Wall Cells Chlorophyll Chloroplasts Chromosomes Endoplasmic Reticulum Golgi Complex Lysosome Mitochondria Nucleolus Nucleus Organelle Plant Cell Cytoplasm Ribosome Robert Hooke Vacuole	Written Work Poster Foldable

	MS-LS1-2 Develop	I CAN develop and use a model to describe the function of a cell	Asexual	Test/Quiz
February	and use a model to	as a whole and ways parts of cells contribute to the function.	Chromosomes	
	describe the function		DNA	Written
	of a cell as a whole and	Develop and use a model to describe phenomena.	Heredity	Work
	ways parts of cells		Nucleic Acid	
	contribute to the		Reproduction	Inquiry Lab
	function.		RNA	
			Sexual	Model
	MS-LS1-3 Use	I CAN use an argument supported by evidence for how the body	Cell Division	Test/Quiz
	argument supported	is a system of interacting subsystems composed of groups of	Differentiation	
	by evidence for how	cells.	Fertilization	Written
	the body is a system of		Organ	Work
	interacting subsystems	Use an oral and written argument supported by evidence to	Organ System	
	composed of groups of	support or refute an explanation or a model for a phenomenon.	Specialization	Foldable
	cells.		Stem Cell	
			Tissue	
	MS-LS1-8 Gather and	I CAN gather and synthesize information that sensory immediate	Carbohydrates	Test/Quiz
	synthesize information	behavior or storage as memories.	Carbon Dioxide	
	that sensory receptors		Cell Respiration	Written
March	respond to stimuli by	Gather, read, and synthesize information from multiple	Fats	Work
TVICTOR	sending messages to	appropriate sources and assess the credibility, accuracy, and	Glucose	
	the brain for	possible bias of each publication and methods used, and describe	Nutrients	Inquiry Lab
	immediate behavior or	how they are supported or not supported by evidence.	Protein	
	storage as memories.			Project
	MS-LS1-4 Use	I CAN use evidence to support how characteristic animal	Evaporation	Lab report
April	argument based on	behaviors and specialized plant structures affect the probability	Groundwater	T(0 :
	empirical evidence	of successful reproduction of animal and plants respectively.	Precipitation	Test/Quiz
	and scientific	He are and and whitten arrayment array and day are sining.	Infiltration Surface	W. wide an
	reasoning to support	Use an oral and written argument supported by empirical evidence and scientific reasoning to support or refute an	Runoff	Written Work
	an explanation for how characteristic	explanation or a model for a phenomenon or a solution to a	Transpiration Condensation Cloud	WOIK
	animal behaviors and	problem.	Formation	Project
	specialized plant	problem.	Watershed	Troject
	structures affect the		vv atersited	Exit ticket
	su uctures affect the			LAIT HEREL

	probability of			
	successful			
	reproduction of			
	animals and plants			
	respectively			
	MS-LS1-5 Construct a	I CAN construct a scientific explanation based on evidence for	Atmosphere	Lab report
	scientific explanation	how environmental and genetic factors influence the growth of	Condensation	
	based on evidence for	organisms.	Convection	Test/Quiz
	how environmental		Currents	
April/May	and genetic factors	Construct a scientific explanation based on valid and reliable	Energy	Written
	influence the growth	evidence obtained from sources (including the students' own	Evaporation	Work
	of organisms.	experiments) and the assumption that theories and laws that	Sublimation	
		describe the natural world operate today as they did in the past	Water cycle	
		and will continue to do so in the future.		
	MS-ESS2-5 Collect	I CAN collect data to provide evidence for how the motions and	Air mass	Quiz/Test
	data to provide	complex interactions of air masses results in changes in weather	Density	
	evidence for how the	conditions.	High Pressure	Written
May	motions and complex		Low Pressure	Work
Iviay	interactions of air	Collect data to produce data to serve as the basis for evidence to	Humidity	
	masses results in	answer scientific questions or test design solutions under a range	Precipitation	Exit ticket
	changes in weather	of conditions.	Wind	
	conditions.		Weather Maps	
	MS-ESS2-6 Develop	I CAN develop a model to show how unequal heating and	Circulation	Test/Quiz
	and use a model to	rotation of the Earth cause patterns of atmospheric and oceanic	Patterns	
	describe how unequal	circulation that determine regional climates.	Coriolis Effect	Written
	heating and rotation		Rotation	Work
June	of the Earth cause	Develop and use a model to describe phenomena.	Latitude	
June	patterns of		Longitude	Model
	atmospheric and		Convection	
	oceanic circulation			
	that determine			
	regional climates.			
	MS-ESS3-5 Ask	I CAN ask questions to clarify evidence of the factors that have	Weather	Test/Quiz
June	questions to clarify	caused the rise in global temperatures over the past century.	Air Mass	
	evidence of the factors		Temperature	

that have caused the	Ask questions to identify and clarify evidence of an argument	Pressure	Written	l
rise in global		Thermometer	Work	l
temperatures over the		Fossil Fuel		l
past century.		Cement Production		l