Timeline	NGSS And Benchmarks	Learning Targets	Vocabulary	Assessment
1 st quarter	MS.PS2.1 Apply	I can apply Newton's third law	Acceleration	Labs
September-	Newton's third law to	to design a solution to a	Charge	Projects
October	design a solution to a	problem	Current	Tests
	problem involving the		Electrical charge	Quizzes
	motion of two colliding		Electromagnetic	
	objects.		Force	
	MS.PS.2.2 Plan an	I can plan and conduct an	Gravitational	
	investigation to provide	experiment to prove that the	interactions	
	evidence that the change in	change in an object depends on	Inertia	
	an object's motion	the sum of the forces on the	Magnetic field	
	depends on the sum of the	object and the mass of the	Magnets	
	forces on the object and	object.		
	the mass of the object.			
	MS.PS2.3 Ask questions	I can determine factors that		
	about data to determine the	affect the strength of electric		
	factors that affect the	and magnetic charges.		
	strength of electric and			
	magnetic forces.			
	MS.PS2.4 Construct and	I can construct and present		
	present arguments using	evidence supporting the		
	evidence to support the	argument that gravitational		
	claim that gravitational	interactions are attractive and		
	interactions are attractive	depend on the masses of the		
	and depend on the masses	interacting objects.		
	of interacting objects.			
	MS.PS2.5	I can conduct an investigation		
	Conduct an investigation	and evaluate the experimental		
	and evaluate the	design to provide evidence that		
	experimental design to	fields exist between objects		
	provide evidence that	exerting forces on each other		
	fields exist between	even though the objects are not		
	objects exerting forces on	in contact.		
	each other even though the			
	objects are not in contact.			

2 nd Marking	MS.PS3.4	I can plan an investigation to	Absorption	Labs
period	Plan an investigation to	determine relationships among	Amplitude	Projects
November-	determine the relationships	the energy transferred, the type	Crest	Tests
January	among the energy	of matter, the mass, and the	Electromagnetic	Quizzes
	transferred, the type of	change in the average kinetic	Spectrum	
	matter, the mass, and the	energy of the particles as	Electromagnetic	
	change in the average	measured by the temperature of	Waves	
	kinetic energy of the	the sample.	Energy	
	particles as measured by		Frequency	
	the temperature of the		Infrared	
	sample.		Medium	
	MS.PS3.5 Construct an	I can construct an argument	Microwaves	
	argument and hold a	and hold a conversation to	Radio Waves	
	conversation to support a	support a claim that when the	Reflection	
	claim that when the kinetic	kinetic energy of an object	Trough	
	energy of an object	changes, energy is transferred	Ultraviolet	
	changes, energy is	to or from the object.	Wavelength	
	transferred to or from the		X-Rays	
	object.			
	MS.PS4.1	I can use mathematical		
	Use mathematical	representations to describe a		
	representations to describe	simple model for waves that		
	a simple model for waves	includes how the amplitude of		
	that includes how the	a wave is related to the energy		
	amplitude of a wave is	in a wave.		
	related to the energy in a			
	wave.			
	MS.PS4.2	I can develop and use a model		
	Develop and use a model	to describe that waves are		
	to describe that waves are	reflected, absorbed, or		
	reflected, absorbed, or	transmitted through various		
	transmitted through	materials.		
	various materials.			
	MS.PS4.3	I can integrate qualitative		
	Integrate qualitative	scientific and technical		
	scientific and technical	information to support the		

·	information to support the claim that digital signals are a more reliable way to encode and transmit information than analog signals.	claim that digital signals are a more reliable way to encode and transmit information than analog signals.		
3 rd Marking Period/January	MS.LS4.1 Analyze and interpret	I can analyze and interpret patterns within data from the	Charles Darwin Evolution	Labs Projects
- March	patterns within data from	fossil record that demonstrate	Extinction	Tests
	the fossil record that	the existence, diversity,	Fossil record	Quizzes
	demonstrate the existence,	extinction, and change of life	Geologic time	-
	diversity, extinction, and	forms throughout Earth's	Gradualism	
	change of life forms	history with the assumption	law of superposition	
	throughout Earth's history	that natural laws operate today	relative dating	
	with the assumption that	as in the past.	Natural selection	
	natural laws operate today		adaptation	
	as in the past.		Scale	
	MS.LS4.2	I can apply scientific ideas to	Species	
	Apply scientific ideas to	explain the anatomical	Vestigial structure	
	explain the anatomical	similarities and differences		
	similarities and differences	among modern organisms and between modern and fossil		
	among modern organisms and between modern and			
	fossil organisms so I CAN	organisms so I CAN make inferences about evolutionary		
	make inferences about	relationships.		
	evolutionary relationships.	relationships.		
	MS.LS4.3	I can analyze pictorial data to		
	Analyze pictorial data to	compare patterns of similarities		
	compare patterns of	in the embryological		
	similarities in the	development across multiple		
	embryological	species to identify relationships		
	development across	not evident in the fully formed		
	multiple species to identify	anatomy.		
	relationships not evident in			
	the fully formed anatomy.			

	MS.LS4.4	I can devise an explanation		
	Devise an explanation	based on evidence that		
	based on evidence that	describes how genetic		
	describes how genetic	variations of traits in a		
	variations of traits in a	population increase some		
	population increase some	individuals' probability of		
	individuals' probability of	surviving and reproducing in a		
	surviving and reproducing	specific environment.		
	in a specific environment.			
	MS.LS4.4	I can use mathematical		
	Use mathematical	representations to support		
	representations to support	explanations of how natural		
	explanations of how	selection may lead to increases		
	natural selection may lead	and decreases of specific traits		
	to increases and decreases	in populations over time.		
	of specific traits in			
.1	populations over time.			
4 th Marking	MS.ESS1.1	I can develop and use a model	Astronomy	Labs
Period/March	Develop and use a model	of the Earth-sun moon system	Crescent	Projects
- June	of the Earth-sun moon	to describe the cyclic patterns	Cyclic Patterns	Tests
	system to describe the	of lunar phases, eclipses of the	Galaxy	Quizzes
	cyclic patterns of lunar	sun and moon, and seasons.	Galileo Galilei	
	phases, eclipses of the sun		Gibbous	
	and moon, and seasons.		Gravity	
	MS.ESS1.2	I can develop and use a model	Lunar Eclipse	
	Develop and use a model	to describe the role of gravity	Lunar Phases	
	to describe the role of	in the motions within the	Model	
	gravity in the motions	galaxies and the solar system.	Revolve	
	within the galaxies and the		Rotate	
	solar system.	To a line of line	Seasons	
	MS.ESS1.3	I can analyze and interpret data	Solar Eclipse	
	Analyze and interpret data	to determine skill properties of	Solar System	
	to determine skill	objects in the solar system.	Universe	
	properties of objects in the		Waning	
	solar system.		Waxing	