For use in the Writing a Performance Expectation Activity

	Life Science	Earth and Space Science	Physics	Chemistry	Engineering Design
	LS1.C: Organization for Matter	ESS1.B: Earth and the Solar	PS2.A: Forces and Motion	PS1.A: Structure and Properties	ETS1.A: Defining and
K-2	and Energy Flow in Organisms	System	Pushes and pulls can have	of Matter	Delimiting Engineering
	All animals need food in order	Seasonal patterns of sunrise and	different strengths and	Different kinds of matter exist	Problems
	to live and grow. They obtain	sunset can be observed,	directions.	and many of them can be either	Before beginning to design a
	their food from plants or from	described, and predicted.		solid or liquid, depending on	solution, it is important to
	other animals. Plants need			temperature. Matter can be	clearly understand the
	water and light to live and grow.			described and classified by its	problem.
				observable properties.	
3-5	LS1.A: Structure and Function	ESS2.A: Earth Materials and	PS2.B: Types of	PS1.B: Chemical Reactions	ETS1.C: Optimizing the Design
	Plants and animals have both	Systems	Interactions	When two or more different	Solution
	internal and external structures	Rainfall helps to shape the land	Objects in contact exert	substances are mixed, a new	Different solutions need to be
	that serve various functions in	and affects the types of living	forces on each other.	substance with different	tested in order to determine
	growth, survival, behavior, and	things found in a region. Water,		properties may be formed.	which of them best solves the
	reproduction.	ice, wind, living organisms, and			problem, given the criteria and
		gravity break rocks, soils, and			the constraints.
		sediments into smaller particles			
		and move them around.			
8-9	LS2.A: Interdependent	ESS1.A: The Universe and Its	PS3.A: Definitions of	PS1.B: Chemical Reactions	ETS1.B: Developing Possible
	Relationships in Ecosystems	Stars	Energy	Substances react chemically in	Solutions
	In any ecosystem, organisms	Patterns of the apparent motion	Motion energy is properly	characteristic ways. In a chemical	A solution needs to be tested,
	and populations with similar requirements for food, water,	of the sun, the moon, and stars in the sky can be observed,	called kinetic energy; it is proportional to the mass of	process, the atoms that make up the original substances are	and then modified on the basis of the test results, in order to
	oxygen, or other resources may	described, predicted, and	the moving object and	regrouped into different	improve it.
	compete with each other for	explained with models.	grows with the square of its	molecules, and these new	improve it.
	limited resources, access to	explained with models.	speed.	substances have different	
	which consequently constrains		speed.	properties from those of the	
	their growth and reproduction.			reactants.	
	LS4.B: Natural Selection	ESS3.A: Natural Resources	PS4.A: Wave Properties	PS1.A: Structure and Properties	ETS1.C: Optimizing the Design
9-12	The traits that positively affect	All forms of energy production	The wavelength and	of Matter	Solution
	survival are more likely to be	and other resource extraction	frequency of a wave are	The periodic table orders	Criteria may need to be broken
	reproduced, and thus are more	have associated economic,	related to one another by	elements horizontally by the	down into simpler ones that
	common in the population.	social, environmental, and	the speed of travel of the	number of protons in the atom's	can be approached
	i i	geopolitical costs and risks as	wave, which depends on	nucleus and places those with	systematically, and decisions
		well as benefits. New	the type of wave and the	similar chemical properties in	about the priority of certain
		technologies and social	medium through which it is	columns. The repeating patterns	criteria over others (trade-offs)
		regulations can change the	passing.	of this table reflect patterns of	may be needed.
		balance of these factors.		outer electron states.	