Strand: Life Science		
Topic: 6.LS.3 - .4 Abiotic & Biotic Factors/Symbiosis		
Level: 6th Grade		
Score 4.0 Mastery	**In addition to Score 3.0, in-depth inferences, applications, and analysis indicate an extension of learning.** **The student will:** Given two organisms, student will analyze the likelihood of survival when abiotic and biotic factors are removed. Explain how viruses and bacteria affect the human body.	**Sample Tasks**
3.5	In addition to score 3.0 performance, the student has partial success at score 4.0 content.	
Score 3.0 Proficient	**The student will:** Investigate and explain how changes in biotic and abiotic components in a given habitat can be beneficial or detrimental to native plants and animals. Describe specific relationships (predator/prey, consumer/producer, parasite/host) and symbiotic relationships between organisms.	**Sample Tasks** Give students a scenario and have them explain how changes are beneficial/detrimental to native plants. Construct an explanation that predicts why patterns of interactions develop between organisms in an ecosystem
2.5	The student has no major errors or omissions regarding score 2.0 content, and partial success at score 3.0 content.	
Score 2.0 Progressing	**The student will:** *Recognize or recall specific vocabulary, such as: Biotic, Abiotic, Environment, Ecosystem, Detrimental, Beneficial, Biome, Organism, Habitat, Native, Predator, prey, commensalism, mutualism, parasitism, consumer, producer, parasite, host *Perform basic processes, such as: Identifying the different factors from a picture.	**Sample Tasks** Look at a picture and identify the biotic and abiotic factors. Describe the difference between detrimental and beneficial. Show students actual pictures/interactions and identify the symbiotic relationship (parasitism, mutualism, commensalism) and how they are interacting.
1.5	The student has partial success at score 2.0 content, but major errors or omissions regarding score 3.0 content.	
Score 1.0 Beginning	**With help, the student has partial success at score 2.0 content and score 3.0 content.**	
0.5	With help, the student has partial success at score 2.0 content but not at score 3.0 content.	
Score 0.0	**Even with help, the student has no success.**	

Strand: Life Science		
Topic: 6.LS.1 - .2 Photosynthesis		
Level: 6th Grade		
Score 4.0 Mastery	**In addition to Score 3.0, in-depth inferences, applications, and analysis indicate an extension of learning.** **The student will:**	**Sample Tasks**
3.5	In addition to score 3.0 performance, the student has partial success at score 4.0 content.	
Score 3.0 Proficient	**The student will:** Investigate and describe how homeostasis is maintained as living things seek out their basic needs of food, water, shelter, space and air. Describes the role of photosynthesis in the flow of energy in food chains, energy pyramids, and food webs.	**Sample Tasks** Create a diagram demonstrating energy from the sun going to an organism identifying raw materials and products.
2.5	The student has no major errors or omissions regarding score 2.0 content, and partial success at score 3.0 content.	
Score 2.0 Progressing	**The student will:** *Recognize or recall specific vocabulary, such as: food web, food chain, energy pyramid, photosynthesis, homeostasis, basic human needs, Co2, o2, glucose, producer, raw material, consumer, decomposer *Perform basic processes, such as:	**Sample Tasks** Discuss how energy taken in by organisms drives homeostasis in the body. Measure homeostasis in their own body Understand that organisms use energy for bodily processes such as growth, body, repair, motion, maintaining body warmth, respiration.
1.5	The student has partial success at score 2.0 content, but major errors or omissions regarding score 3.0 content.	
Score 1.0 Beginning	**With help, the student has partial success at score 2.0 content and score 3.0 content.**	
0.5	With help, the student has partial success at score 2.0 content but not at score 3.0 content.	
Score 0.0	**Even with help, the student has no success.**	

Strand: Earth Science		
Topic: 6.ESS.3 Planets & Celestial Bodies		
Level: 6th Grade		
Score 4.0 Mastery	**In addition to Score 3.0, in-depth inferences, applications, and analysis indicate an extension of learning.** **The student will:** Analyze and apply knowledge about survival needs on different planets.	**Sample Tasks** Develop a plan to travel to a celestial body of your choice meeting your basic human survival needs (ie. food, water, atmospheric characteristics, environmental, etc.)
3.5	In addition to score 3.0 performance, the student has partial success at score 4.0 content.	
Score 3.0 Proficient	**The student will:** Compare and contrast the Earth, Its moon and other planets in the solar system, including comets and asteroids (Comparisons should be made in regard to size, surface, features, atmospheric characteristics, and the ability to support life)	**Sample Tasks** Create a diagram that identifies each of the characteristics, after completing guided research for each quality (surface features, etc.) Be able to explain the scale factor in regard to the planets and solar systems Create a chart/diagram to compare/contrast these features.
2.5	The student has no major errors or omissions regarding score 2.0 content, and partial success at score 3.0 content.	
Score 2.0 Progressing	**The student will:** *Recognize or recall specific vocabulary, such as: Celestial Bodies, Comet, Asteroid, Surface, Scale, Model, Terrestrial, Gaseous, Atmosphere *Perform basic processes, such as: List the planets in order from the sun List basic characteristics of each planet	**Sample Tasks** List the planets in order Distinguish terrestrial from gaseous planets Identify the following vocabulary: celestial bodies, composition, comet, asteroid, surface, scale, gaseous, terrestrial, model provide an explanation as to why Earth is the only planet to be able to sustain life
1.5	The student has partial success at score 2.0 content, but major errors or omissions regarding score 3.0 content.	
Score 1.0 Beginning	**With help, the student has partial success at score 2.0 content and score 3.0 content.**	
0.5	With help, the student has partial success at score 2.0 content but not at score 3.0 content.	
Score 0.0	**Even with help, the student has no success.**	

Strand: Physical Science		
Topic: 6.PS.3 Potential & Kinetic Energy/Energy Transformations		
Level: 6th Grade		
Score 4.0 Mastery	**In addition to Score 3.0, in-depth inferences, applications, and analysis indicate an extension of learning.** **The student will:** Connect knowledge of Newton's Law of Motion with potential and kinetic energy.	**Sample Tasks** Provide and explain a situation involving potential/kinetic energy using Newton's Laws of Motion as your basis of explanation.
3.5	In addition to score 3.0 performance, the student has partial success at score 4.0 content.	
Score 3.0 Proficient	**The student will:** Describe how potential (elastic, gravitational, chemical, nuclear, mechanical) and kinetic (electrical, sound, thermal, electromagnetic, mechanical) can be transferred from one form to another.	**Sample Tasks** Explain real-world examples of how energy is transformed in a system. (Ex. Car engines, light switches, a toaster, roller coaster, etc.)
2.5	The student has no major errors or omissions regarding score 2.0 content, and partial success at score 3.0 content.	
Score 2.0 Progressing	**The student will:** *Recognize or recall specific vocabulary, such as: potential energy, kinetic energy, elastic, gravitational, chemical, nuclear, mechanical, kinetic, electrical, sound, thermal, electromagnetic, mechanical *Perform basic processes, such as: explain the Law of conservation of energy know examples of energy transformations	**Sample Tasks** Define potential and kinetic energy Define the Law of conservation of energy
1.5	The student has partial success at score 2.0 content, but major errors or omissions regarding score 3.0 content.	
Score 1.0 Beginning	**With help, the student has partial success at score 2.0 content and score 3.0 content.**	
0.5	With help, the student has partial success at score 2.0 content but not at score 3.0 content.	
Score 0.0	**Even with help, the student has no success.**	

Strand: Earth Science		
Topic: 6.ESS.2 Seasons & Moon		
Level: 6th Grade		
Score 4.0 Mastery	**In addition to Score 3.0, in-depth inferences, applications, and analysis indicate an extension of learning.** **The student will:** Understand the positioning of celestial bodies in our solar system and how they effect major Earthly events.	**Sample Tasks** Using a diagram and the lines below describe the positioning and relationship between the Earth, sun and moon and how it relates to the cause of the seasons, eclipses, and tides
3.5	In addition to score 3.0 performance, the student has partial success at score 4.0 content.	
Score 3.0 Proficient	**The student will:** Design models to describe how Earth's rotation, revolution, tilt, and interaction with the sun and moon, cause seasons, tides, changes in daylight hours, eclipses, and phases of the moon.	**Sample Tasks** Model rotation and revolution and draw a diagram describing how indirect/direct sunlight are the main cause of the seasons in both hemispheres. Student can illustrate a solar and lunar eclipse. Student can illustrate the 4 basic phases of the moon. Explain how the moon affects tides throughout the day/year.
2.5	The student has no major errors or omissions regarding score 2.0 content, and partial success at score 3.0 content.	
Score 2.0 Progressing	**The student will:** *Recognize or recall specific vocabulary, such as: rotation, orbit, revolution, seasons, tides (neap and spring) eclipses, moon phases, gravity, inertia, solar, lunar *Perform basic processes, such as: Identify four seasons Identify 4 of the 8 moon phases Identify cause of tides Identify the difference between rotation and revolution	**Sample Tasks** List causes of seasons Given an illustration, students will determine the season depicted depending on the position of the Earth Identify the following vocabulary: rotation, orbit, revolution, seasons, tides (neap and spring) eclipses, moon phases, daylight savings.
1.5	The student has partial success at score 2.0 content, but major errors or omissions regarding score 3.0 content.	
Score 1.0 Beginning	**With help, the student has partial success at score 2.0 content and score 3.0 content.**	
0.5	With help, the student has partial success at score 2.0 content but not at score 3.0 content.	
Score 0.0	**Even with help, the student has no success.**	

Strand: Physical Science		
Topic: 6.PS.1-.2 Speed/Velocity/Time/Position		
Level: 6th Grade		
Score 4.0 Mastery	**In addition to Score 3.0, in-depth inferences, applications, and analysis indicate an extension of learning.** **The student will:** Provide and explain a situation involving position/distance/displacement/speed/velocity using Newton's Laws of Motion as your basis of explanation.	**Sample Tasks** Provide and explain a situation involving position/distance/displacement/speed/velocity using Newton's Laws of Motion as your basis of explanation.
3.5	In addition to score 3.0 performance, the student has partial success at score 4.0 content.	
Score 3.0 Proficient	**The student will:** Distinguish between the terms position, distance, and displacement, as well as the terms speed and velocity Describe the motion of an object graphically showing the relationship between time and position	**Sample Tasks** Compare and contrast the difference between speed and velocity Show how displacement and velocity include the direction the object has moved relative to the origin (distance) Identify when an object is in motion or at rest
2.5	The student has no major errors or omissions regarding score 2.0 content, and partial success at score 3.0 content.	
Score 2.0 Progressing	**The student will:** *Recognize or recall specific vocabulary, such as: speed, velocity, distance, position, time, motion, and rest *Perform basic processes, such as: matching vocabulary	**Sample Tasks** Define speed, velocity, distance, time, motion, rest, and position
1.5	The student has partial success at score 2.0 content, but major errors or omissions regarding score 3.0 content.	
Score 1.0 Beginning	**With help, the student has partial success at score 2.0 content and score 3.0 content.**	
0.5	With help, the student has partial success at score 2.0 content but not at score 3.0 content.	
Score 0.0	**Even with help, the student has no success.**	

Strand: Engineering		
Topic: 6.E.1-.4 Simple Machines		
Level: 6th Grade		
Score 4.0 Mastery	**In addition to Score 3.0, in-depth inferences, applications, and analysis indicate an extension of learning.** RUBE GOLDBERGS -Analyzing Rube Goldbergs -Building Rube Goldbergs	**Sample Tasks** RUBE GOLDBERGS -Analyzing Rube Goldbergs -Building Rube Goldbergs
3.5	In addition to score 3.0 performance, the student has partial success at score 4.0 content.	
Score 3.0 Proficient	**The student will:** Identify familiar machines and tools and be able to apply what they know to knowledge of the real world. Explain how the six simple machines discussed in class work and are used in the real world..	**Sample Tasks** Conduct experiments about simple machines, record experiment results,*f* graph results when required Draw examples of each simple machine and be able to correctly identify different simple machines found in everyday things.
2.5	The student has no major errors or omissions regarding score 2.0 content, and partial success at score 3.0 content.	
Score 2.0 Progressing	**The student will:** *Recognize or recall specific vocabulary, such as: Friction, inclined plane, force, axle, power, fulcrum, load, pulley, pull, lever, screw, push, tool, spring, machine, wedge, wheel, torque, work *Perform basic processes, such as: matching vocabulary	**Sample Tasks** Understand and be able to use the vocabulary associated with this unit of study How do machines make our life easier? What negative qualities do machines have?
1.5	The student has partial success at score 2.0 content, but major errors or omissions regarding score 3.0 content.	
Score 1.0 Beginning	**With help, the student has partial success at score 2.0 content and score 3.0 content.**	
0.5	With help, the student has partial success at score 2.0 content but not at score 3.0 content.	
Score 0.0	**Even with help, the student has no success.**	