WLS Grade 5 I CAN Science Statements

WES State SE CAM Science Statements	
Quarter 1	Quarter 2
 I can interpret the roles and interactions of producer, consumer, and decomposer in a real-world context. I can describe the interaction of predator and prey. I can explain that producers transform energy from the sun and make food through a process called photosynthesis. I can investigate and classify the type of symbiotic relationship including mutualism, commensalism, and parasitism. I can analyze the impact on the ecosystem as species are introduced or removed (endangered or threated species, invasive species. I can explain that ALL living things require energy. I can explain that all energy in an ecosystem originates from the sun. I can trace the flow of energy in a food chain or web. I can compare/contrast the roles and relationships of producers, consumers (herbivores, carnivores, and omnivores) and decomposers in a food chain or food web. 	 I can compare/contrast and describe celestial bodies: planets, comets, asteroids, star, meteors, meteorites, dwarf planets, moons, sun, meteoroids, solar system, universe & orbit. I can recognize that each planet has unique characteristics. I can compare/contrast inner and outer planets based on their composition and distance from the sun. I can use data about the compositions of planets to indicate distance from the sun. I can evaluate the appropriateness of different tools to collect data in a given scenario. I can compare/contrast tools for collecting information about the solar system. I can plan an investigation to study a component of the solar system using appropriate tools and scientific practices. I can identify the sun as a medium size star and the only star in our solar system. I can compare/contrast the sizes, distance, and composition (made of gas) of stars as compared to the sun. I can research current/new events/discoveries related to stars & the sun. I can find the relationship between the distance of a star and its apparent size in the sky. I can create a model showing distance or size of the sun/Earth or sun/other stars. I can create a model/graphic to demonstrate that Earth's rotation on its axis causes day/night & the stars to change position every 24 hrs. I can relate using charts and tables with data of average temperature and seasons in relationship to the sun and angle of sunlight. I can explain how Earth's revolution around the sun causes yearly changes. I can explain that seasons are caused by the tilt (23.5 degrees) of the Earth and the amount of direct sunlight during its revolution around the sun. I can state that the moon has phases due to its position & the sun's reflection on it (phase names not taught). I can use data and evidence to make a conclusion about how the position of Earth and the sun relates to seasons and
	explain how the evidence supports this conclusion.
Quarter 3	Quarter 4
I can recognize that forces can cause change in motion.	I can recognize that sound is forms of energy.
I can recognize that objects with greater weight (mass) take more force to move. I can recognize that objects with greater weight (mass) take more force to move.	I can determine that sound is produced by vibration.
 I can explain the relationship between the change in speed, the amount of force and the mass of an object. I can explain that movement is measured by speed (s=distance/time) 	 I can describe the relationship between the speed of vibration and the pitch of the sound (e.g. in stringed instruments). I can recognize that sound must travel through a medium. (solid, liquid, gas)
 I can explain that movement is measured by speed (s=distance/time) I can identify three ways the motion of an object can be changed (speed up, slow down, change direction). 	 I can plan an investigation to support the hypothesis that sound travels in all directions.
 I can predict what will happen to an object depending on the force, speed and direction of the motion. 	 I can compare light and sound behaviors.
I can design an investigation that determines how the mass/weight of an object (or amount of force acting on an object) affects how the motion of an object changes.	Total compare light and sound believes.
I can recognize that light is a form of energy. Lean compare(contract the way light travels (reflect, refract, absorb) - I can compare(contract the way light travels (reflect, refract, absorb).	
 I can compare/contrast the way light travels. (reflect, refract, absorb) I can design an engineering solution to a real-world scenario involving light absorption, reflection and heat. 	
 I can design an engineering solution to a real-world scenario involving light absorption, reflection and heat. I can determine that light travels faster than sound. 	
 I can demonstrate and provide evidence that light travels in a straight line until it interacts with another 	
object/material.	
I can observe that light can travel through solids, liquids, gases and empty space.	
I can recognize that when light cannot pass through an object it forms a shadow.	
I can infer that light can be absorbed by objects causing them to warm. (darker objects absorb more light warms)	
light=warmer)	
 I can explain that the color of an object is the reflected color of light. (red apple reflects red light) I can plan and implement scientific investigations to investigate how light travels. 	
 I can recognize that white light is the combination of all colors of light. 	
 I can plan an investigation to determine relationships between the surface properties, color, intensity, duration, or 	
angle of incidence of absorbed light and change in temperature.	