Physical Science	
2010 Standards	**2016 Standards**
2.1.1 Observe, describe and measure ways in which the properties of a sample of water (including volume) change or stay the same as the water is heated and cooled and then transformed into different states.	**2.PS.3** Construct an argument with evidence that some changes caused by heating and cooling can be reversed and some cannot.
2.1.2 Predict the result of combining solids and liquids in pairs. Mix; observe, gather, record and discuss evidence of whether the result may have different properties than the original materials.	**2.PS.2** Predict the result of combining solids and liquids in pairs. Mix, observe, gather, record, and discuss evidence of whether the result may have different properties than the original materials.
2.1.3 Predict and experiment with methods (e.g. sieving, evaporation) to separate solids and liquids based on their physical properties.	**1.PS.2** Predict and experiment with methods (sieving, evaporation) to separate solids and liquids based on their physical properties.
2.1.4 Observe, sketch, demonstrate and compare how objects can move in different ways (e.g., straight, zig-zag, back-and-forth, rolling, fast and slow).	
2.1.5 Describe the position or motion of an object relative to a point of reference (e.g., background, another object).	
2.1.6 Observe, demonstrate, sketch and compare how applied force (i.e., push or pull) changes the motion of objects.	
2.1.7 Investigate the motion of objects when they are acted upon at a distance by forces like gravity and magnetism.	
	2.PS.1 Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.
	2.PS.4 Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.

Earth and Space Science	
2010 Standards	**2016 Standards**
2.2.1 Construct and use tools to observe and measure weather phenomena like precipitation, changes in temperature, wind speed and direction.	**2.ESS.1** Record detailed weather observations, including cloud cover, cloud type, and type of precipitation on a daily basis over a period of weeks and correlate observations to the time of year. Chart and graph collected data.
2.2.2 Experience and describe wind as the motion of the air.	**2.ESS.1** Record detailed weather observations, including cloud cover, cloud type, and type of precipitation on a daily basis over a period of weeks and correlate observations to the time of year. Chart and graph collected data.
2.2.3 Chart or graph weather observations such as cloud cover, cloud type and type of precipitation on a daily basis over a period of weeks.	**2.ESS.1** Record detailed weather observations, including cloud cover, cloud type, and type of precipitation on a daily basis over a period of weeks and correlate observations to the time of year. Chart and graph collected data.
2.2.4 Ask questions about charted observations and graphed data. Identify the day-to-day patterns and cycles of weather. Understand seasonal time scales in terms of temperature and amounts of rainfall and snowfall.	**2.ESS.1** Record detailed weather observations, including cloud cover, cloud type, and type of precipitation on a daily basis over a period of weeks and correlate observations to the time of year. Chart and graph collected data.
2.2.5 Ask questions and design class investigations on the effect of the sun heating the surface of the earth.	
2.2.6 Learn about, report on and practice severe weather safety procedures.	**2.ESS.2** Investigate the severe weather of the region and its impact on the community, looking at forecasting to prepare for, and respond to, severe weather.
2.2.7 Investigate how the sun appears to move through the sky during the day by observing and drawing the length and direction of shadows.	
2.2.8 Investigate how the moon appears to move through the sky during the day by observing and drawing its location at different times.	

2.2.9 Investigate how the shape of the moon changes from day to day in a repeating cycle that lasts about a month.	
	2.ESS.3 Investigate how wind or water change the shape of the land and design solutions for prevention.
	2.ESS.4 Obtain information to identify where water is found on Earth and that it can be solid or liquid.

Life Science	
2010 Standards	**2016 Standards**
2.3.1 Observe closely over a period of time and then record in pictures and words the changes in plants and animals throughout their life cycles-including details of their body plan, structure and timing of growth, reproduction and death.	
2.3.2 Compare and contrast details of body plans and structures within the life cycles of plants and animals.	**2.LS.2** Compare and contrast details of body plans and structures within the life cycles of plants and animals.
	2.LS.1 Determine patterns and behavior (adaptations) of parents and offspring which help offspring to survive.
	2.LS.3 Classify living organisms according to variations in specific physical features (i.e. body coverings, appendages) and describe how those features may provide an advantage for survival in different environments.

Science, Engineering, and Technology	
2010 Standards	**2016 Standards**
2.4.1 Identify parts of the human body that can be used as tools—like hands for grasping and teeth for cutting and chewing.	

2.4.2 Identify technologies developed by humans to meet human needs. Investigate the limitations of technologies and how they have improved quality of life.	
2.4.3 Identify a need and design a simple tool to meet that need.	

Engineering	
2010 Standards	**2016 Standards**
	K-2.E.1 Pose questions, make observations, and obtain information about a situation people want to change. Use this data to define a simple problem that can be solved through the construction of a new or improved object or tool.
	K-2.E.2 Develop a simple sketch, drawing, or physical model to illustrate and investigate how the shape of an object helps it function as needed to solve an identified problem.
	K-2.E.3 Analyze data from the investigation of two objects constructed to solve the same problem to compare the strengths and weaknesses of how each performs.