

Fourth Grade Parent Rubric

Quarter 2 Science

Earth Science	3
S4E3. Students will differentiate between the states of water and how they relate to the water cycle and weather. a. Demonstrate how water changes states from solid (ice) to liquid (water) to gas (water vapor/steam) and changes from gas to liquid to solid. b. Identify the temperatures at which water becomes a solid and at which water becomes a gas. c. Investigate how clouds are formed. d. Explain the water cycle (evaporation, condensation, and precipitation). e. Investigate different forms of precipitation and sky conditions. (rain, snow, sleet, hail, clouds, and fog).	Consistently differentiates between the states of water and how they are related to the water cycle and weather. Explain the water cycle (evaporation, condensation, and precipitation)
S4E4. Students will analyze weather charts/maps and collect weather data to predict weather events and infer patterns and seasonal changes. a. Identify weather instruments and explain how each is used in gathering weather data and making forecasts (thermometer, rain gauge, barometer, wind vane, anemometer). b. Using a weather map, identify the fronts, temperature, and precipitation and use the information to interpret the weather conditions. c. Use observations and records of weather conditions to predict weather patterns throughout the year. d. Differentiate between weather and climate.	Consistently analyzes weather charts/maps and collects weather data to predict weather events and infer patterns and seasonal changes. Differentiates between weather and climate
Physical Science	
S4P3. Students will demonstrate the relationship between the application of a force and the resulting change in position and motion on an object. a. Identify simple machines and explain their uses (lever, pulley, wedge, inclined plane, screw, wheel and axle). b. Using different size objects, observe how force affects speed and motion. c. Explain what happens to the speed or direction of an object when a greater force than the initial one is applied. d. Demonstrate the effect of gravitational force on the motion of an object.	Consistently demonstrates the relationship between the application of a force and the resulting change in position and motion of an object.