

**ADW Grade 5 Science Standards  
2017**

<b>PHYSICAL SCIENCE (PS)</b>	<b>Standards</b>
<b>SC.5.PS.1</b>	Develop a model to describe that matter is made of particles too small to be seen.
<b>SC.5.PS.2</b>	Describe and measure the physical properties of a sample of a given material using metric units.
<b>SC.5.PS.3</b>	Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating or cooling substances the total amount of matter is
<b>SC.5.PS.4</b>	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.
<b>LIFE SCIENCE (LS)</b>	<b>Standards</b>
<b>SC.5.LS.1</b>	Develop models to describe the flow of matter and energy in living organisms.
<b>SC.5.LS.2</b>	Analyze evidence that living organisms have traits inherited from parents through sexual or asexual reproduction.
<b>SC.5.LS.3</b>	Develop a model to describe the movement of matter and energy between plants, animals, decomposers, and the environment.
<b>SC.5.LS.4</b>	Observe and classify local organisms as producers, consumers, or decomposers based on their relationships and interactions with other organisms in their ecosystem.
<b>EARTH AND SPACE SCIENCE (ESS)</b>	<b>Standards</b>
<b>SC.5.ESS.1</b>	Analyze the scale of our solar system and its components.
<b>SC.5.ESS.2</b>	Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.
<b>SC.5.ESS.3</b>	Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.
<b>SC.5.ESS.4</b>	Describe and graph the amounts of salt water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.
<b>SC.5.ESS.5</b>	Investigate ways individual communities within the United States protect the Earth's resources and environment.
<b>Grades 3-5 Engineering Standards (E)</b>	<b>Standards</b>
<b>SC.3-5.E.1</b>	Identify a simple problem with the design of an object that reflects a need or a want. Include criteria for success and constraints on materials, time, or cost.
<b>SC.3-5.E.2</b>	Construct and compare multiple plausible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.
<b>SC.3-5.E.3</b>	Construct and perform fair investigations in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.