

## Kindergarten Science

Power Standard: Students will demonstrate an understanding of the history and nature of science as a human endeavor encompassing the contributions of diverse cultures, scientists, and careers, demonstrate the abilities and understanding necessary to do scientific inquiry, and demonstrate the ability to think and act as scientists by engaging in active inquiries and investigations, while incorporating hands-on activities.		
SC.O.K.1.01	ask questions about themselves and their world.	
	<ul style="list-style-type: none"> <li>ask questions about themselves</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>ask questions about their world</li> </ul>	Knowledge
SC.O.K.1.02	listen to and discuss stories about the lives and discoveries of scientists.	
	<ul style="list-style-type: none"> <li>Listen to stories about the lives of scientists</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Listen to stories about the discoveries of scientists</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Discuss stories about the lives of scientists</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Discuss stories about the discoveries of scientists</li> </ul>	Knowledge
SC.O.K.1.03	demonstrate curiosity, initiative and creativity by asking questions about the environment noting patterns and variations of natural objects (e.g., trees, leaves, or animal structures).	
	<ul style="list-style-type: none"> <li>Demonstrate curiosity by asking questions about the environment noting patterns of natural objects</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Demonstrate initiative by asking questions about the environment noting patterns of natural objects</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Demonstrate creativity by asking questions about the environment noting patterns of natural objects</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Demonstrate curiosity by asking questions about the environment noting variations of natural objects</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Demonstrate initiative by asking questions about the environment noting variations of natural objects</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Demonstrate creativity by asking questions about the environment noting variations of natural objects</li> </ul>	Reasoning
SC.O.K.1.04	explore and describe objects and events using the five senses to develop observational skills and make predictions based on personal observation.	
	<ul style="list-style-type: none"> <li>Explore objects using the five senses to develop observational skills</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Describe objects using the five senses to develop observational skills</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Explore events using the five senses to develop observational skills</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Describe events using the five senses to develop observational skills</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Make predictions based on personal observation</li> </ul>	Reasoning
SC.O.K.1.05	use scientific instruments and everyday materials to investigate the natural world (e.g., hand lens, balance, or magnets).	
	<ul style="list-style-type: none"> <li>Use scientific instruments to investigate the natural world</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Use and everyday materials to investigate the natural world</li> </ul>	Performance

SC.O.K.1.06	use safe and proper techniques for handling, manipulating and caring for science materials (e.g., follow safety rules, maintain a clean work area, or treat living organisms humanely).	
	<ul style="list-style-type: none"> <li>Use safe techniques for handling science materials</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Use safe techniques for manipulating science materials</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Use safe techniques for caring for science materials</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Use proper techniques for handling science materials</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Use proper techniques for manipulating science materials</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Use proper techniques for caring for science materials</li> </ul>	Performance
SC.O.K.1.07	collect and record information in a variety of ways (e.g., drawings, weather calendar, or graphs).	
	<ul style="list-style-type: none"> <li>collect information in a variety of ways</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>record information in a variety of ways</li> </ul>	Knowledge
<p>Power Standard: Students will demonstrate knowledge, understanding and applications of scientific facts, concepts, principles, theories and models as delineated in the objectives, demonstrate an understanding of the interrelationships among physics, chemistry, biology and the earth and space sciences, and apply knowledge, understanding and skills of science subject matter/concepts to daily life experiences.</p>		
SC.O.K.2.01	using the five senses, identify living and non-living things.	
	<ul style="list-style-type: none"> <li>using the five senses, identify living things</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>using the five senses, identify non-living things</li> </ul>	Performance
SC.O.K.2.02	observe and describe the movement, growth and changes in plants and animals.	
	<ul style="list-style-type: none"> <li>Observe the movement in plants</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Observe the growth in plants</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Observe the changes in plants</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Describe the movement in plants</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Describe the growth in plants</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Describe the changes in plants</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Observe the movement in animals</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Observe the growth in animals</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Observe the changes in animals</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Describe the movement in animals</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Describe the growth in animals</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Describe the changes in animals</li> </ul>	Reasoning
SC.O.K.2.03	observe and describe models of plants and animals in different environments (e.g., terrariums, aquariums, animals and plants in a forest, pond, or field).	
	<ul style="list-style-type: none"> <li>Observe models of plants in different environments</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Observe models of animals in different environments</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Describe models of plants in different environments</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Describe models of animals in different environments</li> </ul>	Reasoning
SC.O.K.2.04	describe, compare, sort and group objects in terms of what they are made of (e.g., clay, cloth, paper, or metal) and their physical properties of size, shape, color, weight or texture.	
	<ul style="list-style-type: none"> <li>Describe objects in terms of what they are made of</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Compare objects in terms of what they are made of</li> </ul>	Reasoning

	<ul style="list-style-type: none"> <li>Sort objects in terms of what they are made of</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Group objects in terms of what they are made of</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Describe objects in terms of size</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Compare objects in terms of size</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Sort objects in terms of size</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Group objects in terms of size</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Describe objects in terms of shape</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Compare objects in terms of shape</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Sort objects in terms of shape</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Group objects in terms of shape</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Describe objects in terms of color</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Compare objects in terms of color</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Sort objects in terms of color</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Group objects in terms of color</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Describe objects in terms of weight</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Compare objects in terms of weight</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Sort objects in terms of weight</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Group objects in terms of weight</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Describe objects in terms of texture</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Compare objects in terms of texture</li> </ul>	Reasoning
	<ul style="list-style-type: none"> <li>Sort objects in terms of texture</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Group objects in terms of texture</li> </ul>	Performance
SC.O.K.2.05	identify liquids and solids.	
	<ul style="list-style-type: none"> <li>Identify liquids</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Identify solids</li> </ul>	Knowledge
SC.O.K.2.06	identify colors.	Knowledge
SC.O.K.2.07	explore and describe changes in energy (e.g., hot/cold or light/dark).	
	<ul style="list-style-type: none"> <li>Explore changes in energy</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Describe changes in energy</li> </ul>	Reasoning
SC.O.K.2.08	explore and discuss magnetic properties of objects.	
	<ul style="list-style-type: none"> <li>Explore magnetic properties of objects</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Discuss magnetic properties of objects</li> </ul>	Knowledge
SC.O.K.2.09	explore and state different ways objects can be moved (e.g., straight, circular, fast, or slow).	
	<ul style="list-style-type: none"> <li>Explore different ways objects can be moved</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>State different ways objects can be moved</li> </ul>	Knowledge
SC.O.K.2.10	observe and record daily changes in weather (e.g., clouds or air temperature).	
	<ul style="list-style-type: none"> <li>Observe daily changes in weather</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Record daily changes in weather</li> </ul>	Knowledge
SC.O.K.2.11	identify objects in the day and night sky (e.g., moon, stars, or sun).	
	<ul style="list-style-type: none"> <li>identify objects in the day sky</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>identify objects in the night sky</li> </ul>	Knowledge
SC.O.K.2.12	observe and compare differences in earth materials.	
	<ul style="list-style-type: none"> <li>Observe differences in earth materials</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Compare differences in earth materials</li> </ul>	Reasoning

Power Standard: Students will recognize models as representations of real things, observe that changes occur gradually, repetitively, or randomly within the environment, listen and be tolerant of different viewpoints while working in collaborative groups, and observe and identify the use of tools and appliances in everyday life.		
SC.O.K.3.01	recognize that models are representations of real things.	Knowledge
SC.O.K.3.02	observe and point out that change occurs gradually, repetitively, or randomly within the environment.	
	<ul style="list-style-type: none"> <li>Observe that change occurs gradually within the environment</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Observe that change occurs repetitively within the environment</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Observe that change occurs randomly within the environment</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Point out that change occurs gradually within the environment</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Point out that change occurs repetitively within the environment</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Point out that change occurs randomly within the environment</li> </ul>	Knowledge
SC.O.K.3.03	observe and identify the uses of tools and appliances at home and at play.	
	<ul style="list-style-type: none"> <li>Observe the uses of tools at home</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Observe the uses of tools at play</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Identify the uses of tools at home</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Identify the uses of tools at play</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Observe the uses of appliances at home</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Observe the uses of appliances at play</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Identify the uses of appliances at home</li> </ul>	Knowledge
	<ul style="list-style-type: none"> <li>Identify the uses of appliances at play</li> </ul>	Knowledge
SC.O.K.3.04	work in groups, listen to and be tolerant of different viewpoints.	
	<ul style="list-style-type: none"> <li>Work in groups</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Listen to different viewpoints</li> </ul>	Performance
	<ul style="list-style-type: none"> <li>Be tolerant of different viewpoints</li> </ul>	Performance