

Kindergarten Science Frameworks

Science vocabulary for Preschool through grade 2 will be based on the resource materials selected to support the Frameworks.

Standard 1: Students apply the processes of scientific investigation and design, conduct, communicate about, and evaluate such investigations.

Students know and are able to:	Indicators of Performance	Resources
use their senses to make and describe careful observations.	<ul style="list-style-type: none">• follows a plan to conduct an investigation that includes asking questions, making observations, and describing what happened through words, pictures, graphs, and/or charts.• uses senses of sight, touch, smell, and sound to observe, describe, sort, count, and compare objects and organisms.	
ask questions and make predictions.	(same as above)	
conduct simple experiments using tools and technology.	(same as above)	
record data, report on findings and explain with reasons.	(same as above)	

Standard 2: Students know and understand common properties, forms, and changes in matter and energy.

Students know and are able to:	Indicators of Performance	Resources
identify, compare, sort/classify by their physical properties(size, shape, texture, flexibility, temperature, color and patterns) solids and liquids (matter).	<ul style="list-style-type: none"> observes and describes the properties of common objects using one or more of the following: color, feel, odor, shape, sound, size, sink or float in water, soak up water, and transparency. 	
	<ul style="list-style-type: none"> compares objects made from common materials by telling how they are alike and how they are different. 	
	<ul style="list-style-type: none"> predicts what an object is made of or how it will act based on previous explorations. 	
	<ul style="list-style-type: none"> groups, sorts, and orders objects. 	
	<ul style="list-style-type: none"> describes how an object was changed during an exploration. 	

Standard 3: Life Science: Students know and understand the characteristics and structure of living things, the processes of life, and how living things interact with each other and their environment.

Students know and are able to :	Indicators of Performance	Resources
identify an organism (plant, animal) as a living thing that has physical characteristics that help it to survive.	<ul style="list-style-type: none"> observes and describes the structures of a variety of common animals. observes, classifies, and describes the behaviors of a variety of common animals.(e.g. fish, snails, earthworms, insects, chicks). 	
identify characteristics of offspring that are similar to but not exactly like their parents.	<ul style="list-style-type: none"> compares animals.(e.g. goldfish, guppies). 	
identify fossils as evidence of organisms that once lived on Earth but have completely disappeared.	<ul style="list-style-type: none"> see Standard 4 	

identify similarities and differences in growth and development of organisms (insect, plant, mammal).	<ul style="list-style-type: none"> observes, classifies, and describes the structures of a variety of common animals. 	
describe how organisms interact with each other and with nonliving parts of their habitat to meet their basic needs (food, water, air, shelter, space).	<ul style="list-style-type: none"> observes and describes the behaviors of different organisms living together. 	

Standard 4: Earth and Space Science: Students know and understand the processes and interactions of Earth's systems and the structure and dynamics of Earth and other objects in space.

Students know and are able to:	Indicators of Performance	Resources
identify different types of Earth's materials (rocks, soil) and recognize they come in various shapes and sizes.	observes a variety of rocks and soils.	
identify major features of Earth's surface. (mountains, rivers...)	identifies surface features from pictures.	

Standard 5: Students understand that the nature of science involves a particular way of building knowledge and making meaning of the natural world.

Students know and are able to:	Indicators of Performance	Resources
observe basic patterns and changes in the world and use that information to predict future events based on those patterns.(seasonal weather patterns, day/night).	<ul style="list-style-type: none">• identifies observable patterns, changes, and interactions.	