



BROWNELL TALBOT

Kindergarten Prioritized Science Standards

The prioritized standards listed align with the NGSS (Next Generation Science Standards) Performance Expectations. The NGSS also includes a set of Science and Engineering Practices for grades kindergarten through 12. A practice of science is to ask and refine questions that lead to descriptions and explanations of how the natural and designed world(s) work and which can be empirically tested. Engineering questions clarify problems to determine criteria for successful solutions and identify constraints to solve problems about the designed world. Both scientists and engineers also ask questions to clarify ideas. (see the link at the bottom for detailed descriptions of those condensed practices, grades K-12)

LIFE SCIENCE		
Molecules to Organisms	Organization for Matter & Energy Flow	Use observations to describe patterns of what plants and animals (including humans) need to survive. (K-LS1-1)
EARTH SCIENCE		
Earth's Systems	Weather & Climate	Use and share observations of local weather conditions to describe patterns over time. (K-ESS2-1)
	Biology	Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs. (K-ESS2-2)
Earth & Human Activity	Natural Resources	Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live. (K-ESS3-1)
	Natural Hazards	Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather. (K-ESS3-2) (<i>secondary</i> ETS1-1)
	Human Impacts	Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment. (K-ESS3-3)
PHYSICAL SCIENCE		
Motion & Stability	Forces & Motion	Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull. (K-PS2-2)
	Types of Interactions	Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object. (K-PS2-1)
Energy	Conservation & Transfer	Make observations to determine the effect of sunlight on Earth's surface. (K-PS3-1) Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area. (K-PS3-2)
ENGINEERING		
Engineering Design	Defining & Delimiting a Problem	Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. (K-2-ETS1-1)
	Developing Possible Solutions	Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. (K-2-ETS1-2)
	Developing Possible Solutions	Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs. (K-2-ETS1-3)