

**Kindergarten
2016 Science Standards Resource Guide**

Physical Science				
2016 Indiana Academic Standards	Clarifying Statements	Vocabulary	Crosscutting Concept	Disciplinary Core Idea
K.PS.1 Plan and conduct an investigation using all senses to describe and classify different kinds of objects by their composition and physical properties. Explain these choices to others and generate questions about the objects.			Structure and Function	PS1.A: Structure and Properties of Matter
K.PS.2 Identify and explain possible uses for an object based on its properties and compare these uses with other students' ideas.			Structure and Function	PS1.A: Structure and Properties of Matter
K.PS.3 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.				PS2.A: Forces and Motion
K.PS.4 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.				PS2.A: Forces and Motion

**Kindergarten
2016 Science Standards Resource Guide**

Earth and Space Science				
2016 Indiana Academic Standards	Clarifying Statements	Vocabulary	Crosscutting Concepts	Disciplinary Core Idea
K.ESS.1 Make observations to determine the effect of sunlight on Earth’s surface and use tools and materials to design and build a structure to reduce the warming effect on Earth's surface.			Cause and Effect	ESS1.B: Earth and the Solar System
K.ESS.2 Describe and compare objects seen in the night and day sky, observing that the sun and moon move across the sky.			Patterns Systems and System Models	ESS1.B: Earth and the Solar System
K.ESS.3 Investigate the local weather conditions to describe patterns over time.			Patterns Systems and System Models	ESS2.D: Weather and Climate
K.ESS.4 Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.			Cause and Effect	ESS3.C: Human Impacts on Earth Systems

**Kindergarten
2016 Science Standards Resource Guide**

Life Science				
2016 Indiana Academic Standards	Clarifying Statements	Vocabulary	Crosscutting Concepts	Disciplinary Core Ideas
K.LS.1 Describe and compare the growth and development of common living plants and animals.			Structure and Function Stability and Change	LS1.B: Growth and Development of Organisms
K.LS.2 Describe and compare the physical features of common living plants and animals.			Structure and Function	LS3.A: Inheritance of Traits LS3.B: Variation of Traits
K.LS.3 Use observations to describe patterns of what plants and animals (including humans) need to survive.			Patterns	

Kindergarten
2016 Science Standards Resource Guide

Engineering				
2016 Indiana Academic Standards	Clarifying Statements	Vocabulary	Crosscutting Concepts	Disciplinary Core Ideas
K-2.E.1 Pose questions, make observations, and obtain information about a situation people want to change. Use this data to define a simple problem that can be solved through the construction of a new or improved object or tool.				ETS1.A: Defining and Delimiting an Engineering Problem
K-2.E.2 Develop a simple sketch, drawing, or physical model to illustrate and investigate how the shape of an object helps it function as needed to solve an identified problem.				ETS1.B: Developing Possible Solutions ETS1.C: Optimizing the Design Solution
K-2.E.3 Analyze data from the investigation of two objects constructed to solve the same problem to compare the strengths and weaknesses of how each performs.				ETS1.B: Developing Possible Solutions ETS1.C: Optimizing the Design Solution