



Indiana Department of Education

Kindergarten Science Content Connectors



Kindergarten Science 2016

Indiana Academic Standards	Content Connectors
Physical Science	
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.	K.PS.1.a: Use all senses to explore and describe different kinds of objects.
K.PS.2: Identify and explain possible uses for an object based on its properties and compare these uses with other students' ideas.	K.PS.2.a: Identify objects based on their properties.
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.	K.PS.3.a: Explore the different actions of push and pull on an object.
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.	K.PS.4.a: Explore the change of speed or direction of an object with a push or a pull.
Earth Science	
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.	K.ESS.1.a: Identify the effect of sunlight on Earth's surface.



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K.ESS.2: Describe and compare objects seen in the night and day sky, observing that the sun and moon move across the sky.	K.ESS.2.a: Identify objects in the sky.
K.ESS.3: Investigate the local weather conditions to describe patterns over time.	K.ESS.3.a: Investigate the local weather conditions to describe patterns over time.
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.	K.ESS.4.a: Name one way to reduce the impact of humans on the land, water, air, and/or other living things in the local environment.

Life Science	
K.LS.1: Describe and compare the growth and development of common living plants and animals.	K.LS.1.a: Observe the growth of living things.
K.LS.2: Describe and compare the physical features of common living plants and animals.	K.LS.2.a: Identify physical features of living things.
K.LS.3: Use observations to describe patterns of what plants and animals (including humans) need to survive.	K.LS.3.a: State what plants and animals need to survive.
K-2:Science, Engineering and Technology	



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<p>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.</p>	<p>K-2.E.1.a.1: Identify a situation people want to change.</p> <p>K-2.E.1.a.2: Use knowledge to formulate solutions.</p>
<p>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.</p>	<p>K-2.E.2.a: Use a tool to solve a problem.</p>
<p>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.</p>	<p>K-2.E.3.a: Compare two objects and identify their strengths and weaknesses.</p>