



Indiana Department of Education

Grade 2 Science Content Connectors



Second Grade Science 2016

Indiana Academic Standards	Content Connectors
Physical Science	
2.PS.1: Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.	2.PS.1.a.1: Describe properties of various materials.
2.PS.2: Predict the result of combining solids and liquids in pairs. Mix, observe, gather, record, and discuss evidence of whether the result may have different properties than the original materials.	2.PS.2.a.1: Mix and observe the result of how combining solids and liquids may have different properties than the original materials.
2.PS.3: Construct an argument with evidence that some changes caused by heating and cooling can be reversed and some cannot.	2.PS.3.a.1: Observe that some changes caused by heating and cooling can be reversed and some cannot.
2.PS.4: Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.	2.PS.4.a.1: Identify which materials are best suited for an intended purpose based on properties.
Earth Science	
2.ESS.1: Record detailed weather observations, including cloud cover, cloud type, and type of precipitation on a daily basis over a period of weeks and correlate observations to the time of year.	2.ESS.1.a.1: Record weather observations.



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Chart and graph collected data.	
2.ESS.2: Investigate the severe weather of the region and its impact on the community, looking at forecasting to prepare for, and respond to, severe weather.	2.ESS.2.a.1: Understand various weather conditions within a region.
2.ESS.3: Investigate how wind or water change the shape of the land and design solutions for prevention.	2.ESS.3.a.1: Observe how wind or water changes land formations.
2.ESS.4: Obtain information to identify where water is found on Earth and that it can be solid or liquid.	2.ESS.4.a.1: Observe locations and the different states of water on earth.

Life Science	
2.LS.1: Determine patterns and behavior (adaptations) of parents and offspring which help offspring to survive.	2.LS.1.a.1: Determine adaptations to help offspring survive.
2.LS.2: Compare and contrast details of body plans and structures within the life cycles of plants and animals.	2.LS.2.a.1: Observe a variety of lifecycles.



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<p>2.LS.3: Classify living organisms according to variations in specific physical features (i.e. body coverings, appendages) and describe how those features may provide an advantage for survival in different environments.</p>	<p>2.LS.3.a.1: Name a physical feature that helps an animal survive in a certain environment.</p>
<p>Science, Engineering and Technology</p>	
<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.1: 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.1: Compare two objects and identify their strengths and weaknesses.</p>