



# Kindergarten Science Unit Guide

2013-2014

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<http://science.dmschools.org>

Literacy Unit	Theme	Iowa Core Standard K-2	I Can Statements	Materials/ Resources	Project Ideas	Vocabulary needed
2	The 5 Senses	<ul style="list-style-type: none"> <li>Understand and apply knowledge of basic human body structures (human body parts and their functions)</li> </ul>	<p>I can identify the 5 senses and the associated body part.</p> <p>I can use my 5 senses to make observations of an object or situation.</p> <p>I can use tools such as <b>rulers</b>, and <b>magnifiers</b> to extend my senses and my abilities to gather information.</p>	<p><b>Delta Education Body and Senses Discovery Kit</b>  <a href="http://www.delta-education.com/productdetail.aspx?Collection=N&amp;prodID=3406&amp;menuID=">http://www.delta-education.com/productdetail.aspx?Collection=N&amp;prodID=3406&amp;menuID=</a></p> <p><b>Order non-fiction books from Heartland AEA</b>  <a href="http://media1.aea11.k12.ia.us/display/041/wwk770?kw=the+senses&amp;au=P&amp;submit=1">http://media1.aea11.k12.ia.us/display/041/wwk770?kw=the+senses&amp;au=P&amp;submit=1</a></p> <p><b>Video resources:</b>                      5 senses song:  <a href="https://www.youtube.com/watch?v=lvBXWmvOGOk">https://www.youtube.com/watch?v=lvBXWmvOGOk</a></p> <p><b>More ideas:</b>  <a href="http://www.littlegiraffes.com/fivesenses.html">http://www.littlegiraffes.com/fivesenses.html</a></p> <p><b>More Lesson Plan ideas for each sense:</b>  <a href="http://www.squidoo.com/how-to-teach-the-5-senses-to-kids">http://www.squidoo.com/how-to-teach-the-5-senses-to-kids</a></p>	<p><b>Delta Education Body and Senses Discovery Kit</b>  <a href="http://www.delta-education.com/productdetail.aspx?Collection=N&amp;prodID=3406&amp;menuID=">http://www.delta-education.com/productdetail.aspx?Collection=N&amp;prodID=3406&amp;menuID=</a></p> <p><b>Supplemental Project Ideas</b></p> <p><b>Let's Make Sensory Books!</b>  <a href="http://www.scholastic.com/teachers/lesson-plan/let%E2%80%99s-make-sensory-books">http://www.scholastic.com/teachers/lesson-plan/let%E2%80%99s-make-sensory-books</a></p> <p><b>Create Exploratory Centers such as:</b></p> <p><b>Touch Center</b>  <b>Touch and feel bags</b> - Have 12 bags filled with different items. The students put their hands into the bags and draw what they think are in the bags. Create a sheet with 12 boxes for recording drawings.</p> <p><b>Sound Center</b>  <b>Sound Matching</b>- Use dark colored film canisters and put objects into them. On the bottoms of the canisters put colored dots with letters on them. Make two full sets so that a group of 4 could play in teams of two. The canisters are in pairs with matching objects inside and matching letters on the bottom. The children take turns choosing one container and then shaking the rest to find the one that matches. Then their partner takes a turn. They confirm the match via the letters on the bottom.</p> <p><b>Guess that Sound</b> – Use opaque containers to make “mystery containers”. Each container contains an object that is unknown to the students. The students shake and then draw a picture of what they think is in the container.</p> <p><b>Smell/Taste Center</b>  <b>What's That Smell??:</b> Make up containers Styrofoam cups covered with aluminum foil with different smells. Poke holes in the top of the foil so students can smell but not see the contents. (Be aware of any allergies that may be present in your class). Have enough sets for each group of students to share. We do this as a whole class activity - guessing smells, etc.  <b>My Jelly-Belly tastes like. . .</b> - Using jelly-belly beans; have the students hold their nose and chew on a jelly bean. You have a sugar sensation but no taste. After they chew for about 20 seconds I tell them to let go of their nose and they get a blast of flavor. Discuss the role of our nose with taste.</p>	Taste, touch, smell, sight, hear, sense, observe, predict, nose, eyes, ears, tongue, skin

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3	Weather and Seasons	<ul style="list-style-type: none"> <li>Understand and apply knowledge of observable information about daily and seasonal weather conditions.</li> <li>Understand and apply knowledge of events that have repeating patterns.</li> </ul>	<p>I can name the 4 seasons.</p> <p>I can identify the changes in weather from season to season in Iowa.</p> <p>I can use various tools to gather data about the weather.</p> <p>I can recognize the sun as the source of heat and light for the Earth.</p> <p>I can identify seasons, day and night as events that are repeated in regular patterns.</p> <p>I can explain that the sun can only be seen during our daylight hours. (We are unable to see the sun at night because of the rotation of the earth)</p>	<p><b>Order non-fiction books from Heartland AEA</b>  <a href="http://media1.aea11.k12.ia.us/display/041/wwk770?kw=weather+and+seasons&amp;au=P&amp;submit=1">http://media1.aea11.k12.ia.us/display/041/wwk770?kw=weather+and+seasons&amp;au=P&amp;submit=1</a></p> <p><b>Web Resources:</b>  <a href="http://eo.ucar.edu/webweather/">http://eo.ucar.edu/webweather/</a>  <a href="http://www.weatherwizkids.com/">http://www.weatherwizkids.com/</a>  <a href="http://www.theweatherchannelkids.com/">http://www.theweatherchannelkids.com/</a>  <a href="http://www.crh.noaa.gov/gid/?n=weatherforkids">http://www.crh.noaa.gov/gid/?n=weatherforkids</a>  <a href="http://www.allkidsnetwork.com/worksheets/weather/">http://www.allkidsnetwork.com/worksheets/weather/</a></p>	Foss Trees Kit Investigation "Tools for Observing Weather" in materials section of binder, tools 1-6	weather, wind, cloud, thermometer, wind vane, pinwheel, season, sun, spring, summer, winter, fall, rain, temperature, direction, symbol, meteorologist

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4	Me on the Map: Land and Water	Understand and apply knowledge of properties of earth materials.	<p>I can recognize that rocks and soils have different physical properties.</p> <p>I can sort objects based on their observable characteristics.</p> <p>I can explain how soil and rocks are used in my daily life.</p>	<p><b>Order non-fiction books from Heartland AEA</b>  <a href="http://media1.aea11.k12.ia.us/display/041/wwk770?kw=soil+and+rocks&amp;au=P&amp;submit=1">http://media1.aea11.k12.ia.us/display/041/wwk770?kw=soil+and+rocks&amp;au=P&amp;submit=1</a></p> <p><b>Web Resources:</b>  <a href="http://www.sciencekids.co.nz/geology.html">http://www.sciencekids.co.nz/geology.html</a>  <a href="http://www.naeyc.org/files/yc/file/200903/BTJSchmidt_Ogu_Expanded.pdf">http://www.naeyc.org/files/yc/file/200903/BTJSchmidt_Ogu_Expanded.pdf</a>  <a href="http://www.fantasticfunandlearning.com/30-playful-ways-to-teach-young-kids-about-rocks.html">http://www.fantasticfunandlearning.com/30-playful-ways-to-teach-young-kids-about-rocks.html</a></p>	<p><u>Foss Pebbles, Sand and Silt kit:</u>                      Investigation 1, Investigation 2, Investigation 3 (parts 1 &amp; 2 only), Investigation 4</p>	soil, sand, silt, rock, geologist, rough, smooth, sort, texture, mud, crystal, gravel, pebble, fine, coarse

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5	Changing Seasons: Plants and Animals	Understand and apply knowledge of lifecycles of plants and animals	<ul style="list-style-type: none"> <li>I can recognize that plants have life cycles that include being born, developing into adults, reproducing, and eventually dying.</li> </ul>	<p><b>Order non-fiction books from Heartland AEA</b>  <a href="http://media1.aea11.k12.ia.us/display/041/wwk770?kw=plants+and+animals&amp;au=P&amp;submit=1">http://media1.aea11.k12.ia.us/display/041/wwk770?kw=plants+and+animals&amp;au=P&amp;submit=1</a></p> <p><b>Web Resources:</b>  <a href="http://www.sciencekids.co.nz/plants.html">http://www.sciencekids.co.nz/plants.html</a>  <a href="http://www.teachingideas.co.uk/science/contents_plants.htm">http://www.teachingideas.co.uk/science/contents_plants.htm</a>  <a href="http://www.superteacherworksheets.com/plant-worksheets.html">http://www.superteacherworksheets.com/plant-worksheets.html</a></p> <p><b>Video Resources:</b>  <b>Needs of Plants:</b>  <a href="https://www.youtube.com/watch?v=OQT6piZOX7c">https://www.youtube.com/watch?v=OQT6piZOX7c</a>  <b>Sid the Seed:</b>  <a href="https://www.youtube.com/watch?v=jm12JKhNnWY">https://www.youtube.com/watch?v=jm12JKhNnWY</a>  <b>The Tiny Seed By Eric Carle:</b>  <a href="https://www.youtube.com/watch?v=ls6wTeT2cKA">https://www.youtube.com/watch?v=ls6wTeT2cKA</a></p>	Foss Trees Investigations 1 & 2	sprout, seed, stem, leaf, bark, trunk, root, grow