



DELTA SCIENCE MODULES (DSM™)

Grades K-8
Correlation With

Nebraska Science Standards



Nebraska Science Standards

DSM modules are inquiry-based. The fundamentals of scientific inquiry are imbedded in all DSM modules at a developmentally appropriate level. The following correlation of the Nebraska Science Standards to the Delta Science Modules (DSM) is to show representative examples of investigations from DSM that address the content standards. A citation does not reflect all of the investigations or activities from DSM that might address a particular standard.

Grades K-2

SC K-12.1 Comprehensive Science Standard – Inquiry and the Nature of Science and Technology

Students will combine scientific processes and knowledge with scientific reasoning and critical thinking to ask questions about phenomena and propose explanations based on gathered evidence.

STANDARD	DSM ACTIVITY
SC2.1.1.a Ask questions that relate to a science topic	<p>Sunshine and Shadows Activity 8-9, pp. 65-76</p> <p>From Seed to Plant Activity 11-12, pp. 85-96</p> <p>Investigating Water Activity 3-5, pp. 27-46</p> <p>Force and Motion Activity 4-5, pp. 41-55</p> <p>Sink or Float Activity 1-3, pp. 13-34</p> <p>Butterflies and Moths Activity 7-8, pp. 61-77</p>
SC2.1.1.b Conduct simple investigations	<p>Observing an Aquarium Activity 8-9, pp. 79-95</p> <p>Properties Activity 10-11, p. 75-86</p> <p>Investigating Water Activity 7-9, pp. 55-80</p> <p>States of Matter Activity 7, 11, pp. 57-65, 89-96</p> <p>Plant and Animal Populations Activity 9, pp. 85-93</p> <p>Soil Science Activity 10-12, pp. 91-114</p>
SC2.1.1.c Select and use simple tools appropriately	<p>How Do We Learn Activity 10-11, pp. 81-93</p> <p>Properties Activity 6-7, pp. 47-60</p> <p>Investigating Water Activity 2, pp. 21-26</p>

<p>SC2.1.1.d Describe objects, organisms, or events using pictures, words, and numbers</p>	<p>States of Matter Activity 6-7, pp. 51-65 Using Your Senses Activity 2, pp. 23-30 Weather Watching Activity 2-5, pp. 21-50</p> <p>Observing an Aquarium Activity 3-5, pp. 31-55 From Seed to Plant Activity 7-10, pp. 59-84 Finding the Moon Activity 4, 9-10, pp. 39-46, 77-91 Using Your Senses Activity 1-3, pp. 13-36 Sink or Float Activity 9-11, pp. 75-96 Butterflies and Moths Activity 8-9, pp. 71-87</p>
<p>SC2.1.1.e Collect and record observations</p>	<p>Properties Activity 5-6, pp. 47-60 How Do We Learn Activity 6-8, pp. 51-71 Investigating Water Activity 5, 7, pp. 41-46, 55-61 Force and Motion Activity 4-5, pp. 41-55 States of Matter Activity 7, 11, pp. 57-63, 89-96 Weather Watching Activity 2-3, pp. 21-36</p>
<p>SC2.1.1.f Use drawings and words to describe and share observations with others</p>	<p>Sunshine and Shadows Activity 6-7, pp. 49-63 Finding the Moon Activity 4, 9-10, pp. 39-46, 77-91 Observing an Aquarium Activity 3-5, pp. 31-55 Using Your Senses Activity 1-3, pp. 13-36 Sink or Float Activity 9-11, pp. 75-96 Butterflies and Moths Activity 8-9, pp. 71-87</p>
<p>SC2.1.1.g Use appropriate mathematics in all aspects of scientific inquiry</p>	<p>How Do We Learn Activity 6-11, pp. 51-93 From Seed to Plant Activity 7-8, pp. 59-72 Force and Motion Activity 2-3, pp. 23-39 States of Matter Activity 1-2, pp. 13-25 Plant and Animal Populations Activity 8-9, pp. 71-93</p>

SC K-12.2 Comprehensive Science Standard – Physical Science

Students will integrate and communicate the information, concepts, principles, processes, theories, and models of the Physical Sciences to make connections with the natural and engineered world.

STANDARD	DSM ACTIVITY
<p>SC2.2.1.a Observe physical properties of objects (freezing and melting, sinking and floating, color, size, texture, shape, weight)</p>	<p>Properties Activity 1-6, pp. 13-52 Investigating Water Activity 1-2, 5, 7, pp. 13-26, 41-46, 55-61 How Do We Learn Activity 2-3, pp. 23-35 States of Matter Activity 1-3, pp. 13-34 Sink or Float Activity 1, pp. 13-19 Soil Science Activity 1-4, pp. 15-44</p>
<p>SC2.2.1.b Separate and sort objects by physical attributes</p>	<p>Properties Activity 10-11, pp. 75-86 Investigating Water Activity 5, 7, pp. 41-46, 55-61 How Do We Learn Activity 2-3, pp. 23-35 Sink or Float Activity 1, pp. 13-19 Soil Science Activity 2-3, pp. 21-36</p>
<p>SC2.2.1.c Measure objects using standard and nonstandard units.</p>	<p>Properties Activity 6, pp. 47-52 How Do We Learn Activity 6-11 pp. 51-93 From Seed to Plant Activity 7, pp. 59-66 States of Matter Activity 6-7, pp. 51-63 Using Your Senses Activity 2, pp. 23-30 Weather Watching Activity 2-3, pp. 21-29</p>
<p>SC2.2.1.d Identify solids and liquids and recognize that liquids take the shape of their container</p>	<p>Properties Activity 7-8, pp. 53-66 Reader, pp. 5-10 States of Matter Activity 1-2, pp. 13- Reader, pp. 4-5 Sink or Float Reader, pp. 4-5</p>
<p>SC2.2.2.a State location and/or motion relative to another object or its surroundings (in front of, behind, between, over, under, faster, slower, forward and backward, up and down)</p>	<p>Finding the Moon Activity 2-3, pp. 21-37 Sunshine and Shadows Activity 3-5, pp. 27-48 From Seed to Plant</p>

<p>SC2.2.2.b Describe how objects move in many different ways (straight, zigzag, round and round, back and forth, and fast and slow)</p>	<p>Activity 11, pp. 85-90 Force and Motion Activity 2-4, pp. 23-47 Weather Watching Activity 4-5, pp. 37-50 Soil Science Activity 2-3, pp. 21-36</p> <p>Finding the Moon Activity 3, 10, pp. 29-37, 85-91 Sunshine and Shadows Activity 6-7, pp. 49-63 Investigating Water Activity 2-3, 8, pp. 21-34, 63-69 Force and Motion Activity 5-8, pp. 49-82 Weather Watching Activity 4-5, pp. 37-50 Butterflies and Moths Activity 1, 5, pp. 15-21, 47-52</p>
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SC K-12.3 Comprehensive Science Standard – Life Science

Students will integrate and communicate the information, concepts, principles, processes, theories, and models of the Life Sciences to make connections with the natural and engineered world.

STANDARD	DSM ACTIVITY
<p>SC2.3.1.a Differentiate between living and nonliving things</p>	<p>DSM modules provide ample opportunity to address this standard by comparing the various modules to the life science modules. See examples below.</p> <p>Observing an Aquarium Activity 1-6, pp. 15-67 Reader, pp.2-12 From Seed to Plant Activity 1, 13, pp. 15-20, 97-103 Reader, pp. 2-10 Plant and Animal Populations Activity 3, pp. 35-41 Butterflies and Moths Activity 1-2, 11, pp. 15-30, 97-104 Classroom Plants Activity 1-3, 12, pp. 15-37, 105-112 Reader, pp. 2-13</p>
<p>SC2.3.1.b Identify basic needs of living things (food, water, air, space, and shelter)</p>	<p>Observing an Aquarium Activity 2, pp. 23-30 Reader, pp.8-9, 12 From Seed to Plant Activity 2, 8, 11, 14, pp. 21-31, 67-72, 85-90, 105-109 Reader, pp. 6-8, 12 Plant and Animal Populations Activity 2, 4, pp. 25-33, 43-50 Reader, pp. 4-7</p>

<p>SC2.3.1.c Identify external parts of plants and animals</p>	<p>Butterflies and Moths Activity 1, 9-10, pp. 15-21, 79-95 Reader, p. 2</p> <p>Classroom Plants Activity 5, pp. 47-53 Reader, pp. 2-13</p> <p>Observing an Aquarium Activity 3-6, pp. 31-67 Reader, pp. 6-8</p> <p>From Seed to Plant Activity 3-5, 9-10, pp. 33-52, 73-84 Reader, pp. 6-9</p> <p>Plant and Animal Populations Activity 4-7, pp. 43-76</p> <p>Butterflies and Moths Activity 1-2, , 9, 12, pp. 15-30, 79-87, 105-110 Reader, pp. 4-7</p> <p>Classroom Plants Activity 6-11, pp. 55-104 Reader, pp. 6-12</p>
<p>SC2.3.1.d Observe and match plants and animals to their distinct habitats.</p>	<p>Observing an Aquarium Activity 2-6, 12, pp. 23-67, 117-125 Reader, pp.14-15</p> <p>Plant and Animal Populations Activity 3-4, 6-7, 10-11, pp. 35-50, 59-76, 95-110 Reader, pp. 2-7</p> <p>Butterflies and Moths Activity 4, pp. 39-45</p> <p>Classroom Plants Reader, pp. 2-3</p>
<p>SC2.3.2.a Describe how offspring resemble their parents</p>	<p>Observing an Aquarium Activity 4-5, 10, pp. 39-55, 97-107 Reader, pp. 10-11</p> <p>From Seed to Plant Activity 13, pp. 97-103 Reader, pp. 10-11</p> <p>Butterflies and Moths Activity 1, 6, 9, 11, pp. 15-21, 53-59, 79-87, 97-104 Reader, pp. 8-13</p> <p>Classroom Plants Reader, pp. 5</p>
<p>SC2.3.2.b Describe how living things change as they grow</p>	<p>Observing an Aquarium Activity 4-5, 10, pp. 39-55, 97-107 Reader, pp. 10-11</p> <p>From Seed to Plant Activity 4-7, pp. 39-66 Reader, pp. 3-5, 10-11</p> <p>Butterflies and Moths Activity 1, 6, 9, 11, pp. 15-21, 53-59, 79-87, 97-104</p>

<p>SC2.3.4.a Recognize seasonal changes in animals and plants</p>	<p>Reader, pp. 8-13 Classroom Plants Activity 3-5, 10, pp. 29-53, 87-95 Reader, p. 5</p> <p>Butterflies and Moths Reader, pp. 15 Weather Watching Reader, pp. 8-9</p>
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SC K-12.4 Comprehensive Science Standard – Earth and Space Science

Students will integrate and communicate the information, concepts, principles, processes, theories, and models of the Earth and Space Sciences to make connections with the natural and engineered world.

STANDARD	DSM ACTIVITY
<p>SC2.4.1.a Identify objects in the sky (the Sun, the Moon, the stars) and when they are observable</p>	<p>Finding the Moon Activity 1, 3-4, pp. 13-19, 29-46 Reader, pp. 2-3 Sunshine and Shadows Activity 4, pp. 33-41, pp. 97-103 Reader, p. 2 Weather Watching Activity 6, pp. 51-59 Weather and Sky Activity 2, pp. 21-28 Reader pp. 9-13</p>
<p>SC2.4.1.b Identify objects that appear to move in the sky (the Sun, the Moon, stars)</p>	<p>Finding the Moon Activity 3-5, pp. 29-54 Reader, pp. 6-10 Sunshine and Shadows Activity 5-7, pp. 43-63 Reader, pp.8-9 Weather Watching Activity 6, pp. 51-59 Reader, p. 10 Weather and Sky Activity 9-11, pp. 93-118 Reader pp. 10, 13</p>
<p>SC2.4.2.a Describe Earth materials (sand, soil, rocks, water)</p>	<p>Investigating Water Activity 1-2, pp. 13-26 Reader, pp. 2-11 Soil Science Activity 1-4, 7, pp. 15-44, 59-67 Reader, pp. 2-8</p>
<p>SC2.4.2.b Recognize ways in which individuals and families can conserve Earth's resources by reducing, reusing, and recycling</p>	<p>Investigating Water Reader, p. 15 Soil Science Reader, pp. 10-12</p>
<p>SC2.4.3.a Observe that the Sun provides heat and light</p>	<p>Sunshine and Shadows Reader, p. 2 Weather Watching</p>

<p>SC2.4.3.b Observe and describe simple daily changes in weather</p> <p>SC2.4.3.c Describe simple seasonal weather indicators and how they impact student choices (activities, clothing)</p>	<p>Activity 2-3, pp. 4-5 Reader, pp. 2-8</p> <p>Weather Watching Activity 1-7, pp. 13-68 Weather and Sky Activity 1, 3-5, pp. 13-20, 29-64 Reader pp. 2-5</p> <p>Weather Watching Activity 1, pp. 13-19 Reader, pp. 8-9 Weather and Sky Activity 7, pp. 75-82 Reader p. 6</p>
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Grades 3-5

SC K-12.1 Comprehensive Science Standard – Inquiry and the Nature of Science and Technology

Students will combine scientific processes and knowledge with scientific reasoning and critical thinking to ask questions about phenomena and propose explanations based on gathered evidence.

STANDARD	DSM ACTIVITY
SC5.1.1.a Ask testable scientific questions	Soil Science Activity 10-12, pp. 91-114 Sink or Float Activity 1-3, pp. 13-34 Food Chains and Webs Activity 2-3, pp. 23-37 Magnets Activity 2-4, pp. 19-34 Color and Light Activity 2-3, pp. 19-35 Oceans Activity 2-3, pp. 23-41
SC5.1.1.b Plan and conduct investigations and identify factors that have the potential to impact an investigation	Force and Motion Activity 4-5, pp. 41-55 Plant and Animal Populations Activity 9, pp. 85-93 Electrical Circuits Activity 6-7, pp. 51-62 Dinosaurs and Fossils Activity 6-7, pp. 47-60 Simple Machines Activity 3-4, pp. 25-37 You and Your Body Activity 3, 5, pp. 27-31, 41-48
SC5.1.1.c Select and use equipment correctly and accurately	States of Matter Activity 6-7, pp. 51-63 Weather Watching Activity 2-5, pp. 21-50 Weather Instruments Activity 1-4, pp. 13-42 Solar System Activity 4-5, pp. 35-50 Rocks and Minerals Activity 4-6, pp. 35-54 Pollution Activity 8-10, pp. 59-76
SC5.1.1.d Make relevant observations and measurements	Using Your Senses Activity 1-3, pp. 13-36 Classroom Plants Activity 3-5, pp. 29-53 Water Cycle Activity 5-7, pp. 45-67 Dinosaurs and Fossils Activity 6-7, pp. 47-60

<p>SC5.1.1.e Collect and organize data</p>	<p>Simple Machines Activity 8-9, pp. 65-76 Weather Forecasting Activity 3-5, pp. 25-48</p> <p>Force and Motion Activity 4-5, pp. 41-55 Weather Watching Activity 2-3, pp. 21-36 Food Chains and Webs Activity 2-3, pp. 23-37 Weather Instruments Activity 1-6, pp. 13-57 Erosion Activity 7, pp. 59-66 You and Your Body Activity 3, 5, pp. 27-31, 41-48</p>
<p>SC5.1.1.f Develop a reasonable explanation based on collected data</p>	<p>DSM provides the opportunity for teachers to address this standard. See examples below:</p> <p>Soil Science Activity 8, 10, pp. 69-79, 91-97 Plant and Animal Populations Activity 8-9, pp. 77-93 Sound Activity 10-11, pp. 83-98 Electrical Circuits Activity 3-4, pp. 27-43 Electromagnetism Activity 5-6, pp. 37-48 Flight and Rocketry Activity 8-9, pp. 81-97</p>
<p>SC5.1.1.g Share information, procedures, and results with peers and adults</p>	<p>Force and Motion Activity 4-5, pp. 41-55 Sink or Float Activity 9-12, pp. 75-107 Water Cycle Activity 5-7, pp. 45-67 Magnets Activity 2-4, pp. 19-34 Color and Light Activity 2-3, 19-35 Pollution Activity 4-7, pp. 31-58</p>
<p>SC5.1.1.h Provide feedback on scientific investigations</p>	<p>DSM provides the opportunity for teachers to address this standard. See examples below:</p> <p>States of Matter Activity 6-7, pp. 51-63 Using Your Senses Activity 2, 12, pp. 23-30, 97-103 Dinosaurs and Fossils Activity 6-7, pp. 47-60</p>

<p>SC5.1.1.i Use appropriate mathematics in all aspects of scientific inquiry</p>	<p>Electrical Circuits Activity 6-7, pp. 51-62 Simple Machines Activity 3-4, pp. 25-37 You and Your Body Activity 9-11, pp. 67-84</p> <p>States of Matter Activity 1-2, pp. 13-25 Force and Motion Activity 2-3, pp. 23-39 Solar System Activity 7-8, pp. 59-72 Dinosaurs and Fossils Activity 6-7, pp. 47-60 Simple Machines Activity 1, pp. 13-18 You and Your Body Activity 5, pp. 41-48</p>
<p>SC5.1.2.a Recognize that scientific explanations are based on evidence and scientific knowledge</p>	<p>DSM investigations provide teachers the opportunity to address this standard. See examples below:</p> <p>Force and Motion Activity 4-5, pp. 41-55 Plant and Animal Populations Activity 9, pp. 85-93 Electrical Circuits Activity 6-7, pp. 51-62 Dinosaurs and Fossils Activity 6-7, pp. 47-60 Simple Machines Activity 3-4, pp. 25-37 You and Your Body Activity 3, 5, pp. 27-31, 41-48</p>
<p>SC5.1.2.b Recognize that new discoveries are always being made which impact scientific knowledge</p>	<p>Classroom Plants Reader, p. 15 Weather Watching Reader, p. 15 Magnets Reader, pp. 14-15 Dinosaurs and Fossils Reader, pp. 14-15 Simple Machines Reader, p. 12 Flight and Rocketry Reader, pp. 5-13, 15</p>
<p>SC5.1.2.c Recognize many different people study science</p>	<p>States of Matter Reader, p. 14 Weather Watching Reader, p. 14 Soil Science Reader, p. 13</p>

	<p>Food Chains and Webs Reader, pp. 11-12</p> <p>Earth Movements Reader, p. 14</p> <p>Simple Machines Reader, p. 12</p> <p>Weather Forecasting Reader, pp. 10-12</p>
<p>SC5.1.3.a Identify a simple problem</p>	<p>States of Matter Activity 5, pp. 41-50 Activity 5, Science Challenge, p. 50</p> <p>Sink or Float Activity 12, pp. 97-107</p> <p>Force and Motion Activity 12, Science Challenge, p. 117</p> <p>Sound Activity 12, pp. 99-105</p> <p>Simple Machines Activity 12, Science Challenge, p. 95</p> <p>Flight and Rocketry Activity 5, Reinforcement, p. 63 Activity 5, Science and Math, p. 64</p>
<p>SC5.1.3.b Propose a solution to a simple problem</p>	<p>States of Matter Activity 5, pp. 41-50 Activity 5, Science Challenge, p. 50</p> <p>Sink or Float Activity 12, pp. 97-107</p> <p>Force and Motion Activity 12, Science Challenge, p. 117</p> <p>Sound Activity 12, pp. 99-105</p> <p>Simple Machines Activity 12, Science Challenge, p. 95</p> <p>Flight and Rocketry Activity 5, Reinforcement, p. 63 Activity 5, Science and Math, p. 64</p>
<p>SC5.1.3.c Implement the proposed solution</p>	<p>States of Matter Activity 5, pp. 41-50 Activity 5, Science Challenge, p. 50</p> <p>Sink or Float Activity 12, pp. 97-107</p> <p>Force and Motion Activity 12, Science Challenge, p. 117</p> <p>Sound Activity 12, pp. 99-105</p> <p>Simple Machines Activity 12, Science Challenge, p. 95</p> <p>Flight and Rocketry Activity 5, Reinforcement, p. 63 Activity 5, Science and Math, p. 64</p>
<p>SC5.1.3.d Evaluate the implementation</p>	<p>States of Matter Activity 5, pp. 41-50</p>

<p>SC5.1.3.e Communicate the problem, design, and solution</p>	<p>Activity 5, Science Challenge, p. 50 Sink or Float Activity 12, pp. 97-107 Force and Motion Activity 12, Science Challenge, p. 117 Sound Activity 12, pp. 99-105 Simple Machines Activity 12, Science Challenge, p. 95 Flight and Rocketry Activity 5, Reinforcement, p. 63 Activity 5, Science and Math, p. 64</p> <p>States of Matter Activity 5, pp. 41-50 Activity 5, Science Challenge, p. 50 Sink or Float Activity 12, pp. 97-107 Force and Motion Activity 12, Science Challenge, p. 117 Sound Activity 12, pp. 99-105 Simple Machines Activity 12, Science Challenge, p. 95 Flight and Rocketry Activity 5, Reinforcement, p. 63 Activity 5, Science and Math, p. 64</p>
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SC K-12.2 Comprehensive Science Standard – Physical Science

Students will integrate and communicate the information, concepts, principles, processes, theories, and models of the Physical Sciences to make connections with the natural and engineered world.

STANDARD	DSM ACTIVITY
<p>SC5.2.1.a Identify mixtures and pure substances</p>	<p>Soil Science Activity 1-3, pp. 15-20 States of Matter Activity 12, pp. 97-101 Reader, p. 11 Oceans Activity 2, pp. 23-30 Electromagnetism Activity 1, pp. 13-17</p>
<p>SC5.2.1.b Identify physical properties of matter (color, odor, elasticity, eight and volume)</p>	<p>Soil Science Activity 1, 4, pp. 15-20, 37-44 States of Matter Activity 7, 11, pp. 57-63, 89-96 Food Chains and Webs Activity 1, pp. 15-22 Magnets Activity 2, pp. 19-23 Oceans Activity 1-2, pp. 23-41 Rocks and Minerals Activity 1, 3-7, pp. 13-19, 29-59</p>

<p>SC5.2.1.c Use appropriate metric measurements to describe physical properties</p>	<p>Reader, p. 4-6 Electromagnetism Activity 1, pp. 13-17</p> <p>States of Matter Activity 7, 11, pp. 57-63, 89-96 Weather Watching Activity 2, pp. 21-28 Reader, p. 11 Weather Instruments Activity 1, pp. 13-21 Weather Forecasting Activity 3, pp. 25-32</p>
<p>SC5.2.1.d Identify state changes caused by heating and cooling for solids, liquids and gases</p>	<p>States of Matter Activity 4-5, 7-12, pp. 35-50, 57-101 Reader, pp. 7-10 Weather Watching Reader, pp. 4-5 Weather Instruments Activity 7, 9, pp. 59-66, 75-80 Reader, p. 6 Water Cycle Activity 8-9, 10-13, pp. 69-83, 91-114 Reader, pp. 8-11</p>
<p>SC5.2.2.a Describe motion by tracing and measuring an object's position over a period of time (speed)</p>	<p>DSM provides the opportunity to address this standard. See below: Force and Motion Reader, p. 3 Simple Machines Reader, p. 2 Flight and Rocketry Activity 9, pp. 91-97</p>
<p>SC5.2.2.b Describe changes in motion due to outside forces (push, pull, gravity)</p>	<p>Force and Motion Activity 4-9, pp. 41-90 Reader, pp. 2, 6-9, 14-15 Weather Instruments Activity 5, pp. 43-50 Solar System Activity 2, pp. 21-26 Simple Machines Activity 3-9, pp. 25-76 Reader, pp. 2, 4-8 Flight and Rocketry Activity 2-4, 6, 8-9, 11-12 pp. 23-54, 65-72, 81-97, 111-130 Reader, pp. 7-13</p>
<p>SC5.2.2.c Describe magnetic behavior in terms of attraction and repulsion</p>	<p>Electrical Circuits Reader, pp. 8-9 Magnets Activity 1-4, pp. 13-34 Reader, pp. 1-5 Electromagnetism</p>

<p>SC5.2.3.a Recognize that sound is produced from vibrating objects; the sound can be changed by changing the vibration</p>	<p>Activity 1-6, pp. 13-48 Reader, pp. 6-9</p> <p>Using Your Senses Activity 5-6, pp. 45-50 Reader, p. 7</p> <p>Sound Activity 1-2, 6-11, pp. 13-28, 51-98 Reader, pp. 2-3, 6-7</p>
<p>SC5.2.3.b Recognize that light travels in a straight line and can be reflected by an object (mirror)</p>	<p>Color and Light Activity 1, 4-6, pp. 13-18, 37-59 Reader, pp. 3-4</p>
<p>SC5.2.3.c Recognize that light can travel through certain materials and not others (transparent, translucent, opaque)</p>	<p>Color and Light Activity 1, 4, pp. 13-18, 37-43 Reader, pp. 4-7</p>
<p>SC5.2.3.d Identify ways to generate heat (friction, burning, incandescent light bulb)</p>	<p>States of Matter Activity 5, pp. 42-50</p> <p>Electrical Circuits Activity 1-2, 8-11, pp. 13-25, 63-88 Reader, p. 3</p> <p>Color and Light Reader, p. 3</p> <p>Flight and Rocketry Activity 3, pp. 33-43</p>
<p>SC5.2.3.e Identify materials that act as thermal conductors or insulators</p>	<p>Electrical Circuits Activity 6-7, pp. 51-62 Reader, p. 3</p>
<p>SC5.2.3.f Recognize that the transfer of electricity in an electrical circuit requires a closed loop.</p>	<p>Electrical Circuits Activity 1-12, pp. 13-94 Reader, pp. 4-7</p> <p>Magnets Activity 11, pp. 71-76</p> <p>Electromagnetism Activity 5-10, pp. 37-76</p>

SC K-12.3 Comprehensive Science Standard – Life Science

Students will integrate and communicate the information, concepts, principles, processes, theories, and models of the Life Sciences to make connections with the natural and engineered world.

STANDARD	DSM ACTIVITY
<p>SC5.3.1.a Compare and contrast characteristics of living and nonliving things</p>	<p>DSM modules provide ample opportunity to address this standard by comparing the various modules to the life science modules. See examples below.</p> <p>Classroom Plants Activity 1-3, 12, pp. 15-37, 105-112 Reader, pp. 2-13</p> <p>Butterflies and Moths Activity 1-2, 11, pp. 15-30, 97-104</p>

<p>SC5.3.1.b Identify how parts of plants and animals function to meet basic needs (e.g., leg of an insect helps an insect move, root of a plant helps the plant obtain water))</p>	<p>Reader, pp. 2-3 Food Chains and Webs Activity 1-6, pp. 15-58 Reader, pp. 4-6 Plant and Animal Life Cycles Activity 1-6, 9-12, pp. 15-63, 83-113 Reader, pp. 2-13 You and Your Body Activity 1-2, 4, 6-8, pp. 13-25, 33-39, 49-66 Reader, pp. 2-11</p> <p>Classroom Plants Activity 6-9, pp. 55-86 Reader, pp. 7-9 Butterflies and Moths Activity 10, pp. 89-95 Reader, pp. 4-7 Food Chains and Webs Activity 4-6, pp. 39-58 Reader, p. 4 Plant and Animal Life Cycles Activity 3-4, pp. 33-48 Reader, pp. 2-5, 7-8, 10-12 You and Your Body Activity 1-2, 7-8, pp. 13-25, 55-66 Reader, pp. 4-5</p>
<p>SC5.3.2.a Identify inherited characteristics of plants and animals</p>	<p>Classroom Plants Activity 10, pp. 87-95 Reader, pp. 5-12 Butterflies and Moths Activity 1-2, 9, 11, pp. 15-30, 79-87, 97-104 Reader, pp. 4-13 Plant and Animal Populations Activity 5, pp. 51-57 Plant and Animal Life Cycles Activity 4-5, 8-11, pp. 43-56, 75-103 Reader, pp. 1-5, 7, 9-12</p>
<p>SC5.3.2.b Identify the life cycle of an organism</p>	<p>Classroom Plants Reader, p. 5 Butterflies and Moths Activity 1, 6, 9, 11, p. 15-21, 53-59, 79-87, 97-104 Reader, pp. 8-13 Plant and Animal Populations Activity 5, pp. 51-57 Plant and Animal Life Cycles Activity 2-13, pp. 23-113 Reader, pp. 3, 7-12</p>
<p>SC5.3.3.a Diagram and explain a simple food chain beginning with the Sun</p>	<p>Plant and Animal Populations Activity 12, pp. 111-117 Reader, pp. 12-13 Food Chains and Webs Activity 10-12, pp. 81-101</p>

<p>SC5.3.3.b Identify the role of producers, consumers, and decomposers in an ecosystem</p>	<p>Reader, pp. 6-7</p> <p>Plant and Animal Populations Activity 6-7, 10-12, pp. 59-76, 95-117 Reader, pp. 12-13</p> <p>Food Chains and Webs Activity 3-12, pp. 31-101 Reader, pp. 6-7</p>
<p>SC5.3.3.c Recognize the living and nonliving factors that impact the survival of organisms in an ecosystem.</p>	<p>Plant and Animal Populations Activity 10-12, pp. 95-117 Reader, pp. 8-11</p> <p>Food Chains and Webs Activity 1-13, pp. 15-101 Reader, pp. 2-3, 6-9</p>
<p>SC5.3.3.d Recognize all organisms cause changes, some beneficial and some detrimental, in the environment where they live</p>	<p>Plant and Animal Populations Reader, p. 15</p> <p>Soil Science Activity 9, pp. 81-89 Reader, pp. 12, 14-15</p> <p>Food Chains and Webs Activity 12, Science, Technology and Society, p. 101 Reader, pp. 10,12</p> <p>Water Cycle Reader, pp. 14-15</p> <p>Pollution Activity 1-2, 4-6, 9-10, pp. 13-24, 31-52, 71-81 Reader, pp. 2-13,15</p>
<p>SC5.3.4.a Describe adaptations made to plants or animals to survive environmental changes</p>	<p>Plant and Animal Populations Reader, pp. 5-7,11</p> <p>Classroom Plants Activity 11, pp. 97-104</p> <p>Butterflies and Moths Reader, p.15</p> <p>Food Chains and Webs Activity 7, pp. 59-66 Reader, pp. 4-5</p>

SC K-12.4 Comprehensive Science Standard – Earth and Space Science

Students will integrate and communicate the information, concepts, principles, processes, theories, and models of the Earth and Space Sciences to make connections with the natural and engineered world.

STANDARD	DSM ACTIVITY
<p>SC5.4.1.a Recognize that the observed shape of the Moon changes from day to day during a month period</p>	<p>Solar System Reader, p. 7</p>
<p>SC5.4.1.b Recognize the motion of objects in the sky (the Sun, the Moon, stars) change over time in recognizable patterns</p>	<p>Solar System Activity 9, pp. 73-81 Activity 9, Science Challenge, p. 81 Reader, pp. 6-7</p>

<p>SC5.4.2.a Describe the characteristics of rocks, minerals, soil, water, and the atmosphere</p>	<p>Soil Science Activity 1-4, 7, pp. 15-44, 59-67 Reader, pp. 2-3, 7-8 Food Chains and Webs Activity 1, pp. 15-22 Earth Movements Activity 3, pp. 29-37 Water Cycle Activity 1, pp. 13-17 Reader, pp. 7-9 Rocks and Minerals Activity 1-10, pp. 13-84 Reader, pp. 4-6, 9-12 Oceans Activity 2-3, pp. 23-41 Reader, p. 3 Erosion Activity 4, 9, pp. 39-42, 75-81</p>
<p>SC5.4.2.b Identify weathering, erosion, and deposition as processes that build up or break down Earth's surface</p>	<p>Soil Science Activity 5-6, 12, pp. 45-51, 107-114 Reader, pp. 4-6, 9 Earth Movements Activity 3, pp. 29-37 Reader, pp. 12-13 Erosion Activity 1-12, pp. 13-104 Reader, pp. 5-13</p>
<p>SC5.4.2.c Identify how Earth materials are used (fuels, building materials, sustaining plant life)</p>	<p>Soil Science Reader, pp.10-12 Food Chains and Webs Activity 1-3, pp.15-37 Plant and Animal Life Cycles Activity 2, pp. 23-32 Water Cycle Reader, pp. 14-15 Rocks and Minerals Activity 11, pp. 85-92 Reader, pp. 7-8, 11-12 Pollution Reader, pp. 5, 7</p>
<p>SC5.4.3.a Describe the Sun's warming effect on the land and water</p>	<p>Weather Watching Activity 2-3, pp. 21-36 Reader, pp. 4-5 Weather Instruments Activity 1, pp. 13-21 Reader, pp. 3-6 Water Cycle Activity 5, 11-13, pp. 45-51, 91-114 Reader, pp. 10-11 Oceans Activity 5, pp. 55-63 Reader, p. 10 Weather Forecasting</p>

<p>SC5.4.3.b Observe, measure and record changes in weather (temperature, wind direction and speed, and precipitation)</p> <p>SC5.4.3.c Recognize the difference between weather, climate and seasons</p> <p>SC5.4.4.a Describe how slow processes (erosion, weathering, deposition, uplift) and rapid processes (landslides, volcanic eruptions, earthquakes, violent storms) change the Earth's surface</p>	<p>Reader, p. 4</p> <p>Weather Watching Activity 1-7, pp. 13-68 Reader, pp. 4-5</p> <p>Weather Instruments Activity 1-6, 12, pp. 13-57, 97-101</p> <p>Weather Forecasting Activity 3, pp. 25-32</p> <p>Weather Watching Activity 1, Science, Technology and Society, p. 19 Reader, pp. 4-5</p> <p>Weather Instruments Activity 1-6, 12, pp. 13-57, 97-101 Reader, p. 2</p> <p>Solar System Activity 9, Science Challenge, p. 81</p> <p>Weather Forecasting Reader, p. 9</p> <p>Soil Science Activity 5-6, 12, pp. 45-58, 107-114 Reader, pp. 4-6, 9</p> <p>Weather Watching Activity 19-10, pp. 77-100 Reader, p.11</p> <p>Earth Movements Activity 3, 10-11, pp. 29-37, 87-110 Reader, pp. 9-13</p> <p>Erosion Activity 1-12, pp. 13-104 Reader, pp. 5-13</p>
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Grades 6-8

SC K-12.1 Comprehensive Science Standard – Inquiry and the Nature of Science and Technology

Students will combine scientific processes and knowledge with scientific reasoning and critical thinking to ask questions about phenomena and propose explanations based on gathered evidence.

STANDARD	DSM ACTIVITY
SC8.1.1.a Formulate testable questions that lead to predictions and scientific investigations	<p>Color and Light Activity 2-3, pp. 19-35</p> <p>Oceans Activity 2-3, pp. 23-41</p> <p>Flight and Rocketry Activity 9, pp. 91-97</p> <p>Matter and Change Activity 1-3, pp.13-35</p> <p>Earth Processes Activity 3-4, pp. 29-46</p> <p>Newton’s Toy Box Activity 3-4, pp. 25-38</p>
SC8.1.1.b Design and conduct logical and sequential investigations including repeated trials	<p>Simple Machines Activity 3-4, pp. 25-37</p> <p>You and Your Body Activity 3, 5, pp. 27-31, 41-48</p> <p>Erosion Activity 7, pp. 59-66</p> <p>Electrical Connections Activity 9-10, p. 75-87</p> <p>Plants in Our World Activity 3, pp. 35-40</p> <p>Newton’s Toy Box Activity 8-9, pp. 55-65</p>
SC8.1.1.c Determine controls and use dependent (responding) and independent (manipulated) variables	<p>Electromagnetism Activity 6, pp. 43-48</p> <p>Pollution Activity 10, pp. 71-76</p> <p>Erosion Activity 5, pp. 43-49</p> <p>Electrical Connections Activity 9-10, p. 75-87</p> <p>Plants in Our World Activity 3, pp. 35-40</p> <p>Matter and Change Activity 12, pp. 99-104</p>
SC8.1.1.d Select and use equipment appropriate to the investigation, demonstrate correct techniques, and apply appropriate mathematical concepts	<p>Simple Machines Activity 1-4, pp.13-37</p> <p>Electromagnetism Activity 6-8, pp. 43-62</p> <p>Oceans Activity 2-3, pp. 23-41</p> <p>Electrical Connections Activity 6-8, p. 51-73</p>

<p>SC8.1.1.e Make qualitative and quantitative observations</p>	<p>Matter and Change Activity 1-3, pp.13-35 Earth Processes Activity 4-5, pp. 39-54</p> <p>Erosion Activity 6-7, pp. 51-66 Rocks and Minerals Activity 4-6, pp. 35-54 Weather Forecasting Activity 3, pp. 25-32 DNA - From Genes to Proteins Activity 1-2, pp.13-24 Plants in Our World Activity 1-5, pp.13-55 Newton's Toy Box Activity 7-11, pp. 49-77</p>
<p>SC8.1.1.f Record and represent data appropriately and review for quality, accuracy and relevancy</p>	<p>Pollution Activity 10, pp. 71-76 You and Your Body Activity 3, 5, pp. 27-31, 41-48 Erosion Activity 7, pp. 59-66 Electrical Connections Activity 8-9, pp. 67-80, p. 75-87 Earth Processes Activity 10, pp. 89-95 Matter and Change Activity 1-2, pp. 13-27</p>
<p>SC8.1.1.g Evaluate predictions, draw logical inferences based on observed patterns/relationships, and account for non-relevant information</p>	<p>DSM provides the opportunity for teachers to address this standard. See examples below:</p> <p>Electromagnetism Activity 6, pp. 43-48 Pollution Activity 10, pp. 71-76 Erosion Activity 5, pp. 43-49 Electrical Connections Activity 9-10, p. 75-87 Plants in Our World Activity 3, pp. 35-40 Matter and Change Activity 12, pp. 99-104</p>
<p>SC8.1.1.h Share information, procedures, results, and conclusions with appropriate audiences</p>	<p>DSM provides the opportunity for teachers to address this standard. See examples below:</p> <p>Simple Machines Activity 3-4, pp. 25-37 You and Your Body Activity 3, 5, pp. 27-31, 41-48 Erosion Activity 7, pp. 59-66</p>

<p>SC8.1.1.i Analyze and provide appropriate critique of scientific investigations</p>	<p>Electrical Connections Activity 9-10, p. 75-87 Plants in Our World Activity 3, pp. 35-40 Newton's Toy Box Activity 8-9, pp. 55-65</p> <p>Simple Machines Activity 3-4, pp. 25-37 You and Your Body Activity 3, 5, pp. 27-31, 41-48 Erosion Activity 7, pp. 59-66 Electrical Connections Activity 9-10, p. 75-87 Plants in Our World Activity 3, pp. 35-40 Newton's Toy Box Activity 8-9, pp. 55-65</p>
<p>SC8.1.1.j Use appropriate mathematics in all aspects of scientific inquiry</p>	<p>Simple Machines Activity 1, pp. 13-18 You and Your Body Activity 5, pp. 41-48 Erosion Activity 7, pp. 59-66 Matter and Change Activity 1-2, pp. 13-27 Earth, Moon and Sun Activity 3-4, pp. 29-44 Newton's Toy Box Activity 7-9, pp. 49-65</p>
<p>SC8.1.2.a Recognize science is an ongoing process and the scientific community accepts and uses explanations until they encounter new experimental evidence not matching existing explanations</p>	<p>DSM provides the opportunity for teachers to address this standard through the experimental nature of the activities. See examples below:</p> <p>Pollution Activity 10, pp. 71-76 Erosion Activity 5, pp. 43-49 Electrical Connections Activity 9-10, p. 75-87 Plants in Our World Activity 3, pp. 35-40</p>
<p>SC8.1.2.b Describe how scientific discoveries influence and change society</p>	<p>Simple Machines Reader, p. 12 Flight and Rocketry Reader, pp. 5-13, 15 Electromagnetism Reader, p. 15 DNA - Genes to Proteins Reader, p. 22 Electrical Connections Reader, p. 22</p>

<p>SC8.1.2.c Recognize scientists from various cultures have made many contributions to explain the natural world</p>	<p>Astronomy Reader, pp. 16-20</p> <p>Simple Machines Reader, p. 12</p> <p>Weather Forecasting Reader, p. 10</p> <p>Newton's Toy Box Reader, p. 22</p> <p>DNA - Genes to Proteins Reader, p. 21</p> <p>Matter and Change Reader, p. 21</p> <p>Earth, Moon and Sun Reader, p. 20</p>
<p>SC8.1.3.a Identify problems for technological design</p>	<p>Simple Machines Activity 12, Science Challenge, p. 95</p> <p>Flight and Rocketry Activity 5, Reinforcement, p. 63 Activity 5, Science and Math, p. 64</p> <p>Newton's Toy Box Activity 10, Science Challenge, p. 72</p>
<p>SC8.1.3.b Design a solution or product</p>	<p>Simple Machines Activity 12, Science Challenge, p. 95</p> <p>Flight and Rocketry Activity 5, Reinforcement, p. 63 Activity 5, Science and Math, p. 64</p> <p>Newton's Toy Box Activity 10, Science Challenge, p. 72</p>
<p>SC5.1.3.c Implement the proposed solution</p>	<p>Simple Machines Activity 12, Science Challenge, p. 95</p> <p>Flight and Rocketry Activity 5, Reinforcement, p. 63 Activity 5, Science and Math, p. 64</p> <p>Newton's Toy Box Activity 10, Science Challenge, p. 72</p>
<p>SC5.1.3.d Evaluate completed technological designs or products</p>	<p>Simple Machines Activity 12, Science Challenge, p. 95</p> <p>Flight and Rocketry Activity 5, Reinforcement, p. 63 Activity 5, Science and Math, p. 64</p> <p>Newton's Toy Box Activity 10, Science Challenge, p. 72</p>
<p>SC5.1.3.e Communicate the process of technological design</p>	<p>Simple Machines Activity 12, Science Challenge, p. 95</p> <p>Flight and Rocketry Activity 5, Reinforcement, p. 63 Activity 5, Science and Math, p. 64</p> <p>Newton's Toy Box Activity 10, Science Challenge, p. 72</p>

<p>SC8.1.3.f Distinguish between scientific inquiry (asking questions about the natural world) and technological design (using science to solve practical problems)</p>	<p>DSM provides investigations and readings dealing with both inquiry and technological design. This provides the opportunity for teachers to address this standard.</p>
<p>SC8.1.3.g Describe how science and technology are reciprocal</p>	<p>DSM provides the opportunity for teachers to address this standard. See examples below:</p>
	<p>Oceans Reader, pp. 14-15 DNA - From Genes to Proteins Reader, pp. 21-22 Astronomy Reader, pp. 16-20</p>
<p>SC8.1.3. h Recognize that solutions have intended and unintended consequences</p>	<p>Simple Machines Reader, p. 12 Pollution Reader, pp. 4-5, 5, 9-10, 13 DNA - From Genes to Proteins Activity 12-13, pp. 101-115 Reader, p. 22 Matter and Change Reader, pp. 21</p>
<p>SC8.1.3.i Compare and contrast the reporting of scientific knowledge and the reporting of technological knowledge</p>	<p>DSM provides investigations and readings dealing with both inquiry and technological design. This provides the opportunity for teachers to address this standard.</p>

SC K-12.2 Comprehensive Science Standard – Physical Science

Students will integrate and communicate the information, concepts, principles, processes, theories, and models of the Physical Sciences to make connections with the natural and engineered world.

STANDARD	DSM ACTIVITY
<p>SC8.2.1.a Compare and contrast elements, compounds, and mixtures</p>	<p>Matter and Change Activity 3-7, pp. 29-68 Reader, pp. 4-8, 14-15</p>
<p>SC8.2.1.b Describe physical and chemical properties of matter</p>	<p>Rocks and Minerals Activity 1, 3-7, pp. 13-19, 29-59 Reader, pp. 4-6 Pollution Activity 8, pp. 59-64 Electromagnetism Activity 1, pp. 13-17 Matter and Change Activity 1-2, 10, 12, pp. 13-27, 85-92, 99-04 Reader, pp. 13-20</p>
<p>SC8.2.1.c Recognize most substances can exist as a solid, liquid, or gas depending on temperature</p>	<p>Oceans Activity 5, pp. 55-63 Matter and Change Reader, pp. 9-12</p>

<p>SC8.2.1.d Compare and contrast solids, liquids, and gasses based on properties of these states of matter</p>	<p>Matter and Change Reader, p. 10</p>
<p>SC8.2.1.e Distinguish between physical and chemical change (phase changes, dissolving, burning, rusting)</p>	<p>Rocks and Minerals Activity 6, pp. 47-54 Oceans Activity 2, 5, pp. 23-30, 55-63 Matter and Change Activity 2-3, 12-13, pp. 21-35, 99-109 Reader, pp. 13-20</p>
<p>SC8.2.1.f Recognize conservation of matter in physical and chemical changes</p>	<p>Matter and Change Activity 7, pp. 63-68 Reader, pp. 7, 18</p>
<p>SC8.2.1.g Classify substances into similar groups based on physical properties</p>	<p>Rocks and Minerals Activity 3-7, pp. 29-59 Reader, pp. 3-6 Pollution Activity 8, pp. 59-64 You and Your Body Activity 9-11, pp. 67-84 Matter and Change Activity 1, 3, 10, pp. 13-19, 29-35, 85-92</p>
<p>SC8.2.2.a Describe motion of an object by its position and velocity</p>	<p>Simple Machines Reader, p. 2 Flight and Rocketry Activity 9, pp. 91-97 Newton's Toy Box Activity 1, 3-13, pp. 13-17, 25-90 Reader, pp. 2-5</p>
<p>SC8.2.2.b Recognize an object that is not being subjected to a force will continue to move at a constant speed in a straight line or stay at rest (Newton's 1st law)</p>	<p>Simple Machines Activity 3-4, 8-9, pp. 25-37, 65-69 Reader, p. 2 Flight and Rocketry Activity 2, 8-9, 12, pp. 23-32, 81-97, 121-130 Reader, pp. 4, 7, 9 Newton's Toy Box Activity 3-10, pp. 25-72 Reader, pp. 1-11</p>
<p>SC8.2.2.c Compare the motion of objects related to the effects of balanced and unbalanced forces</p>	<p>Simple Machines Activity 3-4, 7-9, pp. 25-37, 57-76 Reader, pp. 2, 4-9 Flight and Rocketry Activity 2, 4-6, 8-9, 11-12, pp. 23-32, 45-72, 81-97, 111-130 Reader, pp. 2-5, 7, 9-13 Newton's Toy Box Activity 1-13, pp. 13-90 Reader, pp. 4-13</p>

<p>SC8.2.2.d Recognize that everything on or around the Earth is pulled toward the Earth's center by gravitational force</p>	<p>Simple Machines Reader, p. 2 Flight and Rocketry Activity 2, pp. 23-32 Reader, p. 4 Erosion Reader, p. 11 Newton's Toy Box Activity 2-4, pp. 19-38 Reader, pp. 4, 23 Astronomy Reader, p. 3</p>
<p>SC8.2.3.a Recognize that vibrations set up wave-like disturbances that spread away from the source (sound, seismic, water waves)</p>	<p>Erosion Reader, p. 4 Oceans Activity 6, pp. 65-73 Reader, p. 7 Earth Processes Activity 8, pp. 71-79 Reader, p. 9</p>
<p>SC8.2.3.b Identify that waves move at different speeds in different materials</p>	<p>Color and Light Activity 1, 4, pp. 13-38, 37-43 Reader, pp. 4-7</p>
<p>SC8.2.3.c Recognize that light interacts with matter by transmission (including refraction), absorption, or scattering (including reflection)</p>	<p>Color and Light Activity 4-7, 10, 12, pp. 37-67, 85-91, 101-107 Reader, pp. 4-7, 10</p>
<p>SC8.2.3.d Recognize that to see an object, light from the surface of the object must enter the eye; the color seen depends on the properties of the surface and the color of the available light sources</p>	<p>Matter and Change Reader, p. 11</p>
<p>SC8.2.3.e Recognize that heat moves from warmer objects to cooler objects until both reach the same temperature</p>	<p>Electromagnetism Activity 5-10, pp. 37-76 Reader, pp. 4-5, 8-13 Electrical Connections Activity 2-3, 9-11, pp. 21-33, 75-94 Reader, pp. 7-8, 13-15</p>
<p>SC8.2.3.f Describe transfer of energy from electrical and magnetic sources to different energy forms (heat, light, sound, and chemical)</p>	<p>DSM provides the opportunity for teachers to address this standard. See below:</p>
<p>SC8.2.3.g Recognize all energy is neither created nor destroyed</p>	<p>Electrical Connections Activity 2-3, 9-11, pp. 21-33, 75-94 Reader, pp. 7-8, 16</p>

SC K-12.3 Comprehensive Science Standard – Life Science

Students will integrate and communicate the information, concepts, principles, processes, theories, and models of the Life Sciences to make connections with the natural and engineered world.

STANDARD	DSM ACTIVITY
SC8.3.1.a Recognize the levels of organization in living organisms (cells, tissues, organs, organ systems, and organisms)	<p>You and Your Body Activity 1-2, 4, 6-7, pp. 13-25, 33-39, 49-60 Reader, pp. 2-11</p> <p>Plants in Our World Activity 1-2, 4, pp. 13-33, 41-47 Reader, pp. 13-20</p> <p>DNA – From Genes to Proteins Reader, p. 3</p>
SC8.3.1.b Recognize that all organisms are composed of one or many cells; that these cells must grow, divide, and use energy; and that all cells function similarly	<p>You and Your Body Reader, pp. 2-3</p> <p>Plants in Our World Activity 1, pp. 13-25 Reader, p. 2</p> <p>DNA – From Genes to Proteins Activity 3-4, pp. 25-39 Reader, pp. 2-14</p>
SC8.3.1.c Recognize specialized cells perform specialized functions in multicellular organisms	<p>You and Your Body Reader, pp. 4, 6-7</p> <p>Plants in Our World Activity 2, 4, pp. 27-33, 41-47 Reader, pp. 13-20</p> <p>DNA – From Genes to Proteins Reader, pp. 6-7, 10</p>
SC8.3.1.d Identify the organs and functions of the major systems of the human body and describe ways that these systems interact with each other	<p>You and Your Body Activity 1-2, 4, 6-7, pp. 13-25, 33-39, 49-60 Reader, pp. 2-11</p>
SC8.3.1.e Describe how plants and animals respond to environmental stimuli	<p>Pollution Activity 10, pp. 71-76</p> <p>Plants in Our World Activity 4-6, pp. 41-62 Reader, pp. 6, 14</p>
SC8.3.2.a Recognize that hereditary information is contained in genes within the chromosomes of each cell	<p>DNA – From Genes to Proteins Activity 3-5, 10, pp. 25-49, 87-94 Reader, pp. 5, 15-17</p>
SC8.3.2.b Compare and contrast sexual and asexual reproduction	<p>Plants in Our World Reader, pp. 6-7, 10, 12-13, 17, 19-20</p> <p>DNA – From Genes to Proteins Reader, pp. 12-14, 18</p>
SC8.3.3.a Diagram and explain the flow of energy through a simple food web	
SC8.3.3.b Compare the roles of producers, consumers and decomposers in an ecosystem	

<p>SC8.3.3.c Recognize that producers transform sunlight into chemical energy through photosynthesis</p> <p>SC8.3.3.d Determine the biotic and abiotic factors that impact the number of organisms an ecosystems can support</p> <p>SC8.3.3.e Recognize a population is all the individuals of a species at a given place and time</p> <p>SC8.3.3.f Identify symbiotic relationships among organisms</p> <p>SC8.3.3.g Identify positive and negative effects of natural and human activity on an ecosystem</p> <p>SC8.3.4.a Describe how an inherited characteristic enables an organism to improve its survival rate</p> <p>SC8.3.4.b Recognize the extinction of a species is caused by the inability to adapt to an environmental change</p> <p>SC8.3.4.c Use anatomical features of an organism can be used to infer similarities among other organisms</p>	<p>Plants in Our World Activity 9, pp. 81-86 Reader, pp. 3-4 DNA – From Genes to Proteins Reader, p. 10</p> <p>Oceans Reader, p. 13</p> <p>Pollution Activity 1-2, 6, 9-10, pp. 13-24, 47-52, 65-76 Reader, pp. 3-14 Oceans Activity 11, Science Challenge, p. 134</p> <p>DNA – From Genes to Proteins Reader, p. 19</p>
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SC K-12.4 Comprehensive Science Standard – Earth and Space Science

Students will integrate and communicate the information, concepts, principles, processes, theories, and models of the Earth and Space Sciences to make connections with the natural and engineered world.

STANDARD	DSM ACTIVITY
<p>SC8.4.1.a Describe the components of the solar system (the Sun, planets, moons, asteroids, comets)</p> <p>SC8.4.1.b Describe the relationship between motion of objects in the solar system and the phenomena of day, year, eclipses, phases of the Moon and seasons</p>	<p>Earth, Moon and Sun Activity 1-5, 10, pp. 13-51, 93-101 Reader, pp. 2-3, 6-7, 13-17, 21-23 Astronomy Activity 5-6, pp. 51-68 Reader, pp. 2-7</p> <p>Earth, Moon and Sun Activity 6-12, pp. 53-119 Reader, pp. 8-19 Astronomy Activity 5, pp. 51-60</p>

<p>SC8.4.2.c Describe the effects of gravity on Earth (tides) and the effect of gravity on objects in the solar system</p>	<p>Oceans Activity 9, pp. 99-111 Reader, p. 9 Newton's Toy Box Reader, p. 23 Earth, Moon and Sun Activity 12, pp. 111-119 Reader, pp. 3, 16-17 Astronomy Reader, pp. 2-7</p>
<p>SC8.4.2.a Describe the layers of Earth (core, mantle, crust, atmosphere)</p>	<p>Erosion Reader, p. 2 Rocks and Minerals Reader, p. 2 Earth Processes Activity 2, pp. 23-28 Reader, pp. 2-3</p>
<p>SC8.4.2.b Describe the physical composition of soil</p>	<p>Erosion Reader, p. 7 Earth Processes Activity 3, pp. 29-37 Reader, pp. 19-20</p>
<p>SC8.4.2.c Describe the mixture of gasses in the Earth's atmosphere and how the atmosphere properties change at different elevations</p>	<p>Weather Forecasting Activity 1, Science Challenge, p. 18 Reader, p. 2</p>
<p>SC8.4.2.d Describe evidence of the Earth's magnetic field</p>	<p>Electromagnetism Activity 1, Science and Social Studies, p. 17 Activity 2, Science and Language Arts, p. 23 Activity 3, Science Extension, p. 29</p>
<p>SC8.4.2.e Compare and contrast constructive and destructive forces (deposition, erosion, weathering, plate motion causing uplift, volcanoes, and earthquakes) that impact the Earth's surface</p>	<p>Erosion Activity 1-12, pp. 13-104 Reader, pp. 4-13 Earth Processes Activity 3-4, 7-8, pp. 29-46, 63-79 Reader, pp. 9-15, 19</p>
<p>SC8.4.2.f Describe the rock cycle</p>	<p>Rocks and Minerals Activity 2, 10, pp. 21-28, 77-84 Reader, pp. 9-13 Earth Processes Activity 6, pp. 55-67 Reader, pp. 16-18</p>
<p>SC8.4.2.g Describe the water cycle (evaporation, condensation, precipitation)</p>	<p>Oceans Activity 5, pp. 55-63 Reader, p. 10 Weather Forecasting Reader, p. 4</p>
<p>SC8.4.2.h Classify Earth materials as</p>	<p>Pollution</p>

<p>renewable or nonrenewable</p> <p>SC8.4.3.a Describe how energy from the Sun influences the atmosphere and provides energy for plant growth</p> <p>SC8.4.3.b Identify factors that influence daily and seasonal changes on Earth (tilt of the Earth, humidity, air pressure, air masses)</p> <p>SC8.4.3.c Describe atmospheric movements that influence weather and climate (air masses, jet stream)</p> <p>SC8.4.4.a Recognize that the earth processes we see today are similar to those that occurred in the past (uniformity of processes)</p> <p>SC8.4.4.b Describe how environmental conditions have changed through use of the fossil record</p>	<p>Reader, pp. 2, 5, 15 Rocks and Minerals Activity 11, pp. 85-92 Reader, pp. 7, 11</p> <p>Weather Forecasting Reader, p. 4 Oceans Activity 5, pp. 55-63 Reader, p. 10 Pollution Activity 10, pp. 71-76 Plants in Our World Activity 9, pp. 81-86 Reader, pp. 3-4</p> <p>Weather Forecasting Activity 3-8, 10, 12, pp. 25-68, 75-80, 87-93 Reader, pp. 4, 6-8 Earth, Moon and Sun Activity 9, pp. 81-92 Reader, p. 11 Astronomy Activity 5, pp. 51-60</p> <p>Weather Forecasting Reader, pp. 7, 9 Oceans Reader, p. 10</p> <p>DSM provides the opportunity for teachers to address this standard. See below:</p> <p>Erosion Activity 1-2, 9-12, pp. 13-27, 75-104 Reader, pp. 2-23 Rocks and Minerals Reader, pp. 9-13 Earth Processes Activity 3-8, pp. 29-76 Reader, pp. 5-18</p> <p>Earth Processes Reader, p. 22</p>
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