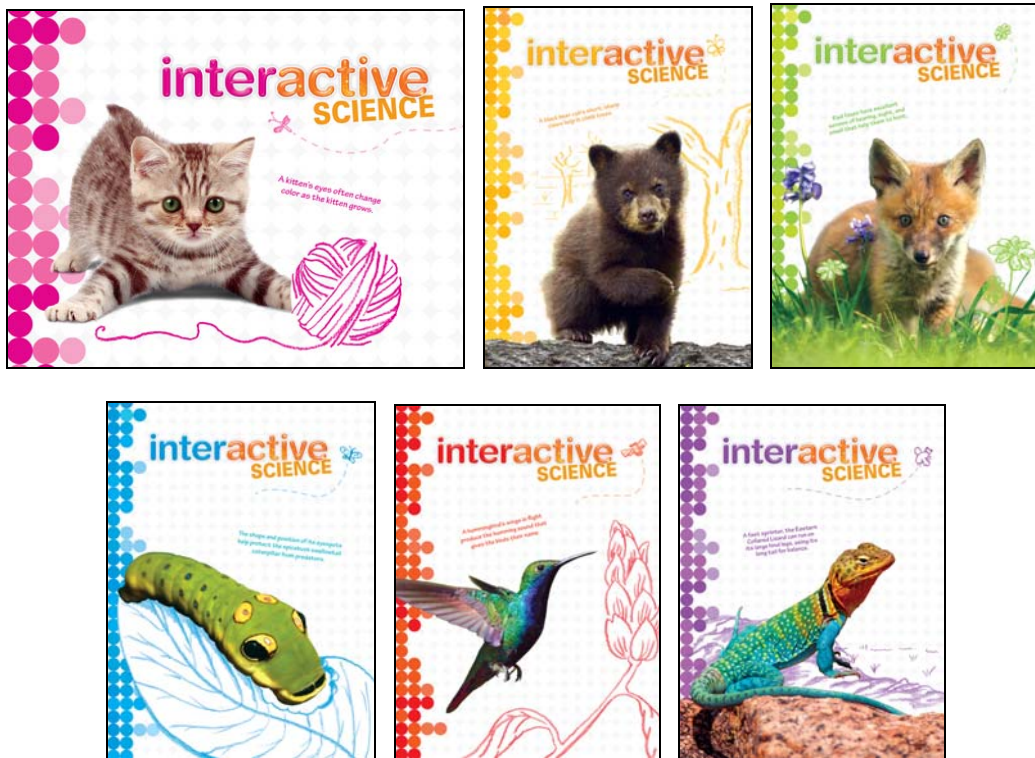


A Correlation of  
**Interactive Science**  
Grades K-5, © 2016



To the

**Wisconsin Model Academic  
Standards for Science**

**By the End of Grade Four Standards**



# A Correlation of Interactive Science ©2016 Grades K-5 to the Wisconsin Model Academic Standards for Science

## Introduction

The following document demonstrates how the *Interactive Science, ©2016* program aligns to the Wisconsin Model Academic Science Standards for grades K-5. Correlation references are to the Student Edition and Teacher Edition. Please note that the Kindergarten Student Edition text pages are two-sided; each singular page contains a corresponding Activity Page on the reverse side.

*Interactive Science* is an elementary science program that makes learning personal, engaging, and relevant for today's student. The program features an innovative Write-in Student Edition that enables students to become active participants in their learning and truly connect the Big Ideas of science to their world.

The 2016 editions of *Interactive Science* were developed to support the Next Generation Science Standards (NGSS) for Grades K-5 in several ways. In the Student Edition, lessons provide interactive opportunities for students to acquire the Disciplinary Core Ideas that are the building blocks of the NGSS Performance Expectations at each grade level. STEM Activities, Apply It! activities, Design It! Activities, and Performance-Based Assessments enable students to research, investigate, and apply Science and Engineering Practices to real-world problems in a meaningful way. In the Teacher's Edition, the NGSS Cross-Cutting Concepts that link across grade levels and across disciplines within grade levels are noted at the chapter level, and a detailed and focused Performance Expectation Activity is provided for each NGSS standard.

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<b>Science, Standard A: Science Connections Performance Standards - Grade 4</b>	
By the end of <b>grade four</b> , students will:	
A.4.1 When conducting science investigations, ask and answer questions that will help decide the general areas of science being addressed	<p><b>Grade K</b> SE: 62, 75, 96 TE: 117, 124-125, 160-161, 175</p> <p><b>Grade 1</b> SE/TE: 144-145, 155-156, 168-171</p> <p><b>Grade 2</b> SE/TE: 160-161, 164 TE Only: 117a</p> <p><b>Grade 3</b> SE/TE: 286-287</p> <p><b>Grade 4</b> SE/TE: 116-117, 305</p> <p><b>Grade 5</b> SE/TE: 316, 329</p>
A.4.2 When faced with a science-related problem, decide what evidence, models, or explanations previously studied can be used to better understand what is happening now	<p><b>Grade K</b> SE: 65-74 TE: 120-123</p> <p><b>Grade 1</b> SE/TE: 6-7, 146-147</p> <p><b>Grade 2</b> SE/TE: 165, 210-211</p> <p><b>Grade 3</b> SE/TE: 358</p> <p><b>Grade 4</b> SE/TE: 116-117, 320-321</p> <p><b>Grade 5</b> SE/TE: 104, 296-297, 323, 330, 364-367 TE Only: 297a-297d</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<p>A.4.3 When investigating a science-related problem, decide what data can be collected to determine the most useful explanations</p>	<p><b>Grade K</b> SE: 63, 76 TE: 118, 126-127</p> <p><b>Grade 1</b> SE/TE: 12-13, 142, 174-175</p> <p><b>Grade 2</b> SE/TE: 162, 166-167</p> <p><b>Grade 3</b> SE/TE: 313</p> <p><b>Grade 4</b> SE/TE: 322-329 TE Only: 111a</p> <p><b>Grade 5</b> SE/TE: 310-311</p>
<p>A.4.4 When studying science-related problems, decide which of the science themes are important</p>	<p><b>Grade K</b> SE: 75, 78 TE: 124-125, 130-131</p> <p><b>Grade 1</b> SE/TE: 155-157</p> <p><b>Grade 2</b> SE/TE: 175-177</p> <p><b>Grade 3</b> SE/TE: 290-291, 298-301 TE Only: 290C</p> <p><b>Grade 4</b> SE/TE: 305-307 TE Only: 296C-296D</p> <p><b>Grade 5</b> SE/TE: 323-327 TE Only: 314C</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<p>A.4.5 When studying a science-related problem, decide what changes over time are occurring or have occurred</p>	<p><b>Grade K</b> SE: 60 TE: 98</p> <p><b>Grade 1</b> SE/TE: 102, 111, 118, 122-123, 137</p> <p><b>Grade 2</b> SE/TE: 64, 105, 149 TE Only: 105a-105b</p> <p><b>Grade 3</b> SE/TE: 65, 102, 106, 133, 176</p> <p><b>Grade 4</b> SE/TE: 51, 236</p> <p><b>Grade 5</b> SE/TE: 341-342, 349</p>
<p><b>Science, Standard B: Nature of Science Performance Standards - Grade 4</b></p>	
<p>By the end of <b>grade four</b>, students will:</p>	
<p>B.4.1 Use encyclopedias, source books, texts, computers, teachers, parents, other adults, journals, popular press, and various other sources, to help answer science-related questions and plan investigations</p>	<p><b>Grade K</b> SE: 61 TE: 99, 175</p> <p><b>Grade 1</b> SE/TE: 8-9</p> <p><b>Grade 2</b> TE Only: 61a-61b, 61d, 97</p> <p><b>Grade 3</b> SE/TE: 294, 358</p> <p><b>Grade 4</b> SE/TE: 228-229, 306</p> <p><b>Grade 5</b> SE/TE: 56, 324</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<p>B.4.2 Acquire information about people who have contributed to the development of major ideas in the sciences and learn about the cultures in which these people lived and worked</p>	<p><b>Grade K</b> SE: 40, 82, 100 TE: 61, 137, 167</p> <p><b>Grade 1</b> SE/TE: 24, 130, 154</p> <p><b>Grade 2</b> SE/TE: 106, 174, 198 TE Only: 80</p> <p><b>Grade 3</b> SE/TE: 8, 28, 84, 136, 168, 239, 278, 337, 346</p> <p><b>Grade 4</b> SE/TE: 98, 214</p> <p><b>Grade 5</b> SE/TE: 84, 141</p>
<p>B.4.3 Show* how the major developments of scientific knowledge in the earth and space, life and environmental, and physical sciences have changed over time</p>	<p><b>Grade K</b> SE: 40, 59 TE: 61, 97</p> <p><b>Grade 1</b> SE/TE: 18, 34, 71, 202, 207 TE Only: 2C</p> <p><b>Grade 2</b> SE/TE: 204, 207 TE Only: 160G</p> <p><b>Grade 3</b> SE/TE: 93, 151, 285</p> <p><b>Grade 4</b> SE/TE: 77, 105</p> <p><b>Grade 5</b> SE/TE: 390 TE Only: 195d</p>

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Wisconsin Model Academic Standards for Science, Grade 4 Standards	Interactive Science ©2016 Grades K-5
<b>Science, Standard C: Science Inquiry Performance Standards - Grade 4</b>	
By the end of <b>grade four</b> , students will:	
C.4.1 Use the vocabulary of the unifying themes to ask questions about objects, organisms, and events being studied	<p><b>Grade K</b> SE: 3, 75 TE: 11, 124-125</p> <p><b>Grade 1</b> SE/TE: 168, 161, 205-207 TE Only: 30</p> <p><b>Grade 2</b> SE/TE: 16, 18-21</p> <p><b>Grade 3</b> SE/TE: 114, 161, 195, 298-299, 300</p> <p><b>Grade 4</b> SE/TE: 106, 120-122</p> <p><b>Grade 5</b> SE/TE: 49, 159, 237</p>



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Wisconsin Model Academic Standards for Science, Grade 4 Standards	Interactive Science ©2016 Grades K-5
<p>C.4.2 Use the science content being learned to ask questions, plan investigations, make observations, make predictions, and offer explanations</p>	<p><b>Grade K</b> SE: 84, 85, 97 TE: 154, 155, 162-163</p> <p><b>Grade 1</b> SE/TE: 158-160, 209-213</p> <p><b>Grade 2</b> SE/TE: 66-75, 166-173, 176, 178-181, 188-191, 196-197, 208-217, 208-217, 242-247 TE Only: 117a</p> <p><b>Grade 3</b> SE/TE: 156-159, 250-253, 300, 309-312</p> <p><b>Grade 4</b> SE/TE: 69, 106-107, 234-237, 278-279, 290-293, 305-307, 330-331 TE Only: 279a-279d</p> <p><b>Grade 5</b> SE/TE: 242-243, 318-321, 325, 328, 332-333</p>
<p>C.4.3 Select multiple sources of information to help answer questions selected for classroom investigations</p>	<p><b>Grade 4</b> SE/TE: 50 TE Only: 229d</p> <p><b>Grade 5</b> TE Only: 195c-195d, 313C</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<p>C.4.4 Use simple science equipment safely and effectively, including rulers, balances, graduated cylinders, hand lenses, thermometers, and computers, to collect data relevant to questions and investigations</p>	<p><b>Grade K</b> SE: 64, 79, 80 TE: 119, 132-133, 134-135, 175</p> <p><b>Grade 1</b> SE/TE: 162-167</p> <p><b>Grade 2</b> SE/TE: 163, 182-187</p> <p><b>Grade 3</b> SE/TE: 320-325, 326-327</p> <p><b>Grade 4</b> SE/TE: 308-313</p> <p><b>Grade 5</b> SE/TE: 339-340 TE Only: 314D</p>
<p>C.4.5 Use data they have collected to develop explanations and answer questions generated by investigations</p>	<p><b>Grade K</b> SE: 79 TE: 132-133, 140-141, 144</p> <p><b>Grade 1</b> SE/TE: 150-151, 168-171, 214-215</p> <p><b>Grade 2</b> SE/TE: 170-171, 216-217 TE Only: 61b</p> <p><b>Grade 3</b> SE/TE: 96-97, 307, 314, 317</p> <p><b>Grade 4</b> SE/TE: 51, 53, 108-109, 236, 314-321</p> <p><b>Grade 5</b> SE/TE: 242-243, 262, 336-338, 349</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<p>C.4.6 Communicate the results of their investigations in ways their audiences will understand by using charts, graphs, drawings, written descriptions, and various other means, to display their answers</p>	<p><b>Grade K</b> SE: 77, 78, 98 TE: 128-129, 130-131, 164-165</p> <p><b>Grade 1</b> SE/TE: 14-15, 152-153, 172-175</p> <p><b>Grade 2</b> SE/TE: 172-173, 188, 191, 192-195</p> <p><b>Grade 3</b> SE/TE: 292, 314-319, 360</p> <p><b>Grade 4</b> SE/TE: 53, 119, 181, 227, 237, 349</p> <p><b>Grade 5</b> SE/TE: 263, 349, 385, 402 TE Only: 243c</p>
<p>C.4.7 Support their conclusions with logical arguments</p>	<p><b>Grade K</b> SE: 43, 98 TE: 33b, 81, 160, 164</p> <p><b>Grade 1</b> SE/TE: 41, 171, 215 TE Only: 33c, 215b, 215c</p> <p><b>Grade 2</b> SE/TE: 5, 59, 115, 157, 188-189 TE Only: 105c, 149c, 188B, 191a, 235c</p> <p><b>Grade 3</b> SE/TE: 3, 14-15, 99, 243 TE Only: 229c, 327c</p> <p><b>Grade 4</b> SE/TE: 53, 69, 97, 161, 237</p> <p><b>Grade 5</b> SE/TE: 327, 344-347</p>

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Wisconsin Model Academic Standards for Science, Grade 4 Standards	Interactive Science ©2016 Grades K-5
C.4.8 Ask additional questions that might help focus or further an investigation	<p><b>Grade K</b> SE: 75 TE: 11, 81, 109b, 124-125</p> <p><b>Grade 1</b> SE/TE: 154-156, 169 TE Only: 157</p> <p><b>Grade 2</b> SE/TE: 160-161, 174-177</p> <p><b>Grade 3</b> SE/TE: 287, 299-300</p> <p><b>Grade 4</b> SE/TE: 339</p> <p><b>Grade 5</b> SE/TE: 316</p>

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Wisconsin Model Academic Standards for Science, Grade 4 Standards	Interactive Science ©2016 Grades K-5
<b>Science, Standard D: Physical Science Performance Standards - Grade 4</b>	
By the end of <b>grade four</b> , students will:	
PROPERTIES OF EARTH MATERIALS	
<p>D.4.1 Understand that objects are made of more than one substance, by observing, describing and measuring the properties of earth materials, including properties of size, weight, shape, color, temperature, and the ability to react with other substances</p>	<p><b>Grade K</b> TE: 33a, 165</p> <p><b>Grade 1</b> SE/TE: 46, 59, 176-177 TE Only: 58, 177a-177d</p> <p><b>Grade 2</b> SE/TE: 40-47, 48-49, 58-59 TE Only: 49a-49d, 61a</p> <p><b>Grade 3</b> SE/TE: 24, 74, 154, 161 TE Only: 327a-327d</p> <p><b>Grade 4</b> SE/TE: 20, 114, 140 TE Only: 111g</p> <p><b>Grade 5</b> SE/TE: 10, 16-21, 35, 42</p>
<p>D.4.2 Group and/or classify objects and substances based on the properties of earth materials</p>	<p><b>Grade K</b> SE: 33, 34 TE: 33, 48-49, 50-51</p> <p><b>Grade 1</b> TE Only: 140E, 185a</p> <p><b>Grade 2</b> SE/TE: 16-17, 25-29, 56, 58-59</p> <p><b>Grade 3</b> SE/TE: 81</p> <p><b>Grade 4</b> SE/TE: 121, 195-199</p> <p><b>Grade 5</b> SE/TE: 316</p>

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Wisconsin Model Academic Standards for Science, Grade 4 Standards	Interactive Science ©2016 Grades K-5
D.4.3. Understand that substances can exist in different states-solid, liquid, gas	<p><b>Grade 2</b> SE/TE: 24-29, 44, 48-49</p> <p><b>Grade 3</b> SE/TE: 255, 286 TE Only: 325</p> <p><b>Grade 4</b> SE/TE: 273 TE Only: 275</p> <p><b>Grade 5</b> SE/TE: 3, 16-19, 22-27 TE Only: 1D</p>
D.4.4 Observe and describe changes in form, temperature, color, speed, and direction of objects and construct explanations for the changes	<p><b>Grade K</b> SE: 1, 2, 15, 16, 17, 18 TE: 8-9, 10, 18-19, 20-21, 22-23, 24</p> <p><b>Grade 1</b> SE/TE: 20-23</p> <p><b>Grade 2</b> SE/TE: 4-5, 24, 30-35, 36-39, 206 TE Only: 61d, 197a-197d</p> <p><b>Grade 3</b> SE/TE: 4-7, 9-13, 14-21, 22, 40-41, 270, 302</p> <p><b>Grade 4</b> SE/TE: 28-33, 62-67 TE Only: 35a-35d</p> <p><b>Grade 5</b> SE/TE: 60-65</p>

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Wisconsin Model Academic Standards for Science, Grade 4 Standards	Interactive Science ©2016 Grades K-5
<p>D.4.5 Construct simple models of what is happening to materials and substances undergoing change, using simple instruments or tools to aid observations and collect data</p>	<p><b>Grade K</b> SE: 24, 47-53 TE: 16, 33b, 45, 71c, 84-85, 109c</p> <p><b>Grade 1</b> SE/TE: 10-11, 96, 128-129</p> <p><b>Grade 2</b> SE/TE: 40, 88 TE Only: 117b</p> <p><b>Grade 3</b> SE/TE: 266-269, 308, 312</p> <p><b>Grade 4</b> SE/TE: 212-213</p> <p><b>Grade 5</b> SE/TE: 104-105, 120, 336-343, 380-381, 388-389 TE Only: 389a-389d</p>
<b>POSITION AND MOTION OF OBJECTS</b>	
<p>D.4.6 Observe and describe physical events in objects at rest or in motion</p>	<p><b>Grade K</b> SE: 15, 17 TE: 18-19, 22-23</p> <p><b>Grade 1</b> SE/TE: 20-23</p> <p><b>Grade 2</b> SE/TE: 4-5, 24, 30-35, 36-39, 206 TE Only: 61d, 197a-197d</p> <p><b>Grade 3</b> SE/TE: 9-13, 26-27, 40</p> <p><b>Grade 4</b> SE/TE: 55-59, 68-69</p> <p><b>Grade 5</b> SE/TE: 66-73, 94-97</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<p>D.4.7 Observe and describe physical events involving objects and develop record-keeping systems to follow these events by measuring and describing changes in their properties, including:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> position relative to another object</li> <li><input type="checkbox"/> motion over time</li> <li><input type="checkbox"/> and position due to forces</li> </ul>	<p><b>Grade K</b>  <b>SE:</b> 14, 16, 17, 24  <b>TE:</b> 16-17, 20-21, 22-23, 24, 33a-33b</p> <p><b>Grade 1</b>  <b>SE/TE:</b> 188</p> <p><b>Grade 2</b>  <b>SE/TE:</b> 228</p> <p><b>Grade 3</b>  <b>SE/TE:</b> 1-3, 9-10, 14-19, 26-27, 40, 351  <b>TE Only:</b> 27a-27d, 99a-99b</p> <p><b>Grade 4</b>  <b>SE/TE:</b> 48-49, 55-61</p> <p><b>Grade 5</b>  <b>SE/TE:</b> 61-65, 66-73, 74-77, 82-83  <b>TE Only:</b> 83a-83d</p>



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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
LIGHT, HEAT, ELECTRICITY, AND MAGNETISM	
<p>D.4.8 Ask questions and make observations to discover the differences between substances that can be touched (matter) and substances that cannot be touched (forms of energy, light, heat, electricity, sound, and magnetism)</p>	<p><b>Grade K</b>  <b>SE:</b> 33  <b>TE:</b> 48-49</p> <p><b>Grade 1</b>  <b>SE/TE:</b> 4, 17-19, 20-23, 24-27, 28-31, 32-33, 40-41, 190-199  <b>TE Only:</b> 33a-33d, 43a-43d</p> <p><b>Grade 2</b>  <b>SE/TE:</b> 16-23, 25-29, 164-173  <b>TE Only:</b> 61c</p> <p><b>Grade 3</b>  <b>SE/TE:</b> 20-21, 41, 42-45, 48-51, 52-57, 58-65, 66-69, 70-75, 76-81, 82-83, 94-97, 98-99  <b>TE Only:</b> 83a-83d, 99c-99d</p> <p><b>Grade 4</b>  <b>SE/TE:</b> 1-2, 4-7, 8-15, 16-21, 22-27, 28-33, 34-35, 36, 78-79, 80, 82-85, 86-91, 92-95, 96-97  <b>TE Only:</b> 35a-35d, 111b, 111d, 111g</p> <p><b>Grade 5</b>  <b>SE/TE:</b> 8-15, 28-33, 34-39, 65, 78-81, 326  <b>TE Only:</b> 99a, 99c</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<b>Science, Standard E: Earth and Space Science Performance Standards - Grade 4</b>	
By the end of <b>grade four</b> , students will:	
PROPERTIES OF EARTH MATERIALS	
<p>E.4.1 Investigate that earth materials are composed of rocks and soils and correctly use the vocabulary for rocks, minerals, and soils during these investigations</p>	<p><b>Grade K</b> SE: 58 TE: 94-95, 109e</p> <p><b>Grade 1</b> SE/TE: 48-49, 156, 205</p> <p><b>Grade 2</b> SE/TE: 138-143, 144-147, 148-149, 158 TE Only: 149a-149d</p> <p><b>Grade 3</b> SE/TE: 123 TE Only: 225</p> <p><b>Grade 4</b> SE/TE: 232-233, 238-243, 244-253, 254</p> <p><b>Grade 5</b> SE/TE: 214</p>
<p>E.4.2 Show that earth materials have different physical and chemical properties, including the properties of soils found in Wisconsin</p>	<p><b>Grade K</b> SE: 58 TE: 94-95</p> <p><b>Grade 2</b> TE Only: 2D, 76</p> <p><b>Grade 3</b> SE/TE: 117</p> <p><b>Grade 4</b> SE/TE: 238-243, 244-253</p> <p><b>Grade 5</b> SE/TE: 214</p>

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Wisconsin Model Academic Standards for Science, Grade 4 Standards	Interactive Science ©2016 Grades K-5
E.4.3 Develop descriptions of the land and water masses of the earth and of Wisconsin's rocks and minerals, using the common vocabulary of earth and space science	<p><b>Grade 2</b> SE/TE: 120-121 TE Only: 159d</p> <p><b>Grade 3</b> SE/TE: 254-255</p> <p><b>Grade 4</b> SE/TE: 232-233, 238-243, 244-253, 266-271 TE Only: 295d</p> <p><b>Grade 5</b> SE/TE: 204 TE Only: 313b</p>
<b>OBJECTS IN THE SKY</b>	
E.4.4 Identify celestial objects (stars, sun, moon, planets) in the sky, noting changes in patterns of those objects over time	<p><b>Grade K</b> SE: 54, 55 TE: 86-87, 88-89, 107</p> <p><b>Grade 1</b> SE/TE: 120, 114-117, 118-123, 128-129, 139 TE Only: 129a-129d, 139a-139b</p> <p><b>Grade 4</b> SE/TE: 56</p> <p><b>Grade 5</b> SE/TE: 256-259, 264-269, 270-275, 276-283, 284-289, 290-295, 298 TE Only: 256C-256D, 313c-313d</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
CHANGES IN THE EARTH AND SKY	
<p>E.4.5 Describe the weather commonly found in Wisconsin in terms of clouds, temperature, humidity, and forms of precipitation, and the changes that occur over time, including seasonal changes</p>	<p><b>Grade K</b>  <b>SE:</b> 42, 43, 44-53, 56, 60, 61  <b>TE:</b> 80, 81, 82-85, 90-91, 98, 99, 102-106, 107, 109a-109c</p> <p><b>Grade 1</b>  <b>SE/TE:</b> 124-127, 136-137</p> <p><b>Grade 3</b>  <b>SE/TE:</b> 246-247, 248-249, 254, 256-257, 258-265, 271-275, 276-277  <b>TE Only:</b> 277a-277d</p> <p><b>Grade 4</b>  <b>SE/TE:</b> 274-277</p> <p><b>Grade 5</b>  <b>SE/TE:</b> 198, 204-209, 216-223, 224-229, 255</p>
<p>E.4.6 Using the science themes, find patterns and cycles in the earth's daily, yearly, and long-term changes</p>	<p><b>Grade K</b>  <b>SE:</b> 41, 57  <b>TE:</b> 78-79, 92-93, 107</p> <p><b>Grade 1</b>  <b>SE/TE:</b> 124-127</p> <p><b>Grade 3</b>  <b>SE/TE:</b> 258  <b>TE Only:</b> 136</p> <p><b>Grade 5</b>  <b>SE/TE:</b> 230-235, 255</p>

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Wisconsin Model Academic Standards for Science, Grade 4 Standards	Interactive Science ©2016 Grades K-5
E.4.7 Using the science themes, describe resources used in the home, community, and nation as a whole	<p><b>Grade 1</b> <b>TE Only:</b> 19</p> <p><b>Grade 2</b> <b>SE/TE:</b> 122-131</p> <p><b>Grade 3</b> <b>SE/TE:</b> 46, 48-49</p> <p><b>Grade 4</b> <b>SE/TE:</b> 199 <b>TE Only:</b> 45</p> <p><b>Grade 5</b> <b>SE/TE:</b> 4-5 <b>TE Only:</b> 195a</p>
E.4.8 Illustrate human resources use in mining, forestry, farming, and manufacturing in Wisconsin and elsewhere in the world	<p><b>Grade K</b> <b>SE:</b> 35 <b>TE:</b> 52-53</p> <p><b>Grade 1</b> <b>SE/TE:</b> 131</p> <p><b>Grade 4</b> <b>SE/TE:</b> 194-199</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<b>Science, Standard F: Life and Environmental, Performance Standards - Grade 4</b>	
By the end of <b>grade four</b> , students will:	
THE CHARACTERISTICS OF ORGANISMS	
<p>F.4.1 Discover* how each organism meets its basic needs for water, nutrients, protection, and energy* in order to survive</p>	<p><b>Grade K</b>  <b>SE:</b> 21, 35, 36, 37  <b>TE:</b> 42, 52-53, 54-55, 56-57, 69, 71a, 71c</p> <p><b>Grade 1</b>  <b>SE/TE:</b> 68, 74-75, 86-87</p> <p><b>Grade 2</b>  <b>SE/TE:</b> 76-81, 82-87, 88-93, 100-103, 104-105</p> <p><b>Grade 3</b>  <b>SE/TE:</b> 47, 110-115, 116-121, 122-127, 128-132, 134-139, 140-141, 210-215  <b>TE Only:</b> 38, 141a-141d</p> <p><b>Grade 4</b>  <b>SE/TE:</b> 212-213  <b>TE Only:</b> 213a-213d</p> <p><b>Grade 5</b>  <b>SE/TE:</b> 102, 109-113, 114-119, 120-125  <b>TE Only:</b> 195a</p>

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<p>F.4.2 Investigate* how organisms, especially plants, respond to both internal cues (the need for water) and external cues (changes in the environment)</p>	<p><b>Grade K</b>  <b>SE:</b> 21, 39  <b>TE:</b> 42, 60, 64-68, 71c</p> <p><b>Grade 1</b>  <b>SE/TE:</b> 48-57, 66, 68-71, 86-87, 104-113  <b>TE Only:</b> 87a-87d</p> <p><b>Grade 2</b>  <b>SE/TE:</b> 64, 76-81, 104-105, 116  <b>TE Only:</b> 105a-105d</p> <p><b>Grade 3</b>  <b>SE/TE:</b> 102, 104-107, 240-243,</p> <p><b>Grade 4</b>  <b>SE/TE:</b> 136-141</p> <p><b>Grade 5</b>  <b>SE/TE:</b> 102, 112, 114-119, 132, 150-157  <b>TE Only:</b> 133a-133d, 195b-195c</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
LIFE CYCLES OF ORGANISMS	
<p>F.4.3 Illustrate* the different ways that organisms grow through life stages and survive to produce new members of their type</p>	<p><b>Grade K</b> SE: 34 TE: 50-51</p> <p><b>Grade 1</b> SE/TE: 64-67, 68-71, 72-77, 78-81, 86-87 TE Only: 87a-87d, 99a-99c</p> <p><b>Grade 2</b> SE/TE: 76-81, 88-93</p> <p><b>Grade 3</b> SE/TE: 152-153, 166, 168-175, 176-183, 245 TE Only: 245a-254c, 245f</p> <p><b>Grade 4</b> SE/TE: 122-127, 129-135 TE Only: 229a-229b</p> <p><b>Grade 5</b> SE/TE: 126-131</p>



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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<b>ORGANISMS AND THEIR ENVIRONMENT</b>	
<p>F.4.4 Using the science themes*, develop explanations* for the connections among living and non-living things in various environments</p>	<p><b>Grade K</b>  <b>SE:</b> 22, 33, 38  <b>TE:</b> 43, 48-49, 58-59, 71b, 71c</p> <p><b>Grade 1</b>  <b>SE/TE:</b> 47, 58-63, 82-85</p> <p><b>Grade 2</b>  <b>SE/TE:</b> 64, 65, 94-99</p> <p><b>Grade 3</b>  <b>SE/TE:</b> 100-101, 163-165, 196-197, 200-203, 204-209, 216-223, 228-229  <b>TE Only:</b> 196C, 229a-229d, 245d, 245g</p> <p><b>Grade 4</b>  <b>SE/TE:</b> 142-147, 148-153, 154-159, 183-187, 188-193, 224-227  <b>TE Only:</b> 174C-174D</p> <p><b>Grade 5</b>  <b>SE/TE:</b> 120-125, 142-143, 144, 146-147, 158-165, 166-173</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<b>Science, Standard G: Science Applications Performance Standards - Grade 4</b>	
By the end of <b>grade four</b> , students will:	
G.4.1 Identify* the technology used by someone employed in a job or position in Wisconsin and explain* how the technology helps	<p><b>Grade K</b> SE: 19 TE: 25</p> <p><b>Grade 1</b> SE/TE: 130</p> <p><b>Grade 2</b> SE/TE: 106</p> <p><b>Grade 3</b> SE/TE: 84, 142, 239, 278</p> <p><b>Grade 4</b> SE/TE: 98, 162</p> <p><b>Grade 5</b> SE/TE: 134, 374</p>
G.4.2 Discover* what changes in technology have occurred in a career chosen by a parent, grandparent, or an adult friend over a long period of time	<p><b>Grade 2</b> SE/TE: 207</p> <p><b>Grade 3</b> SE/TE: 84, 136</p> <p><b>Grade 4</b> SE/TE: 98</p> <p><b>Grade 5</b> SE/TE: 134 TE Only: 314C</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<p>G.4.3 Determine what science discoveries have led to changes in technologies that are being used in the workplace by someone employed locally</p>	<p><b>Grade K</b> TE: 149</p> <p><b>Grade 1</b> SE/TE: 24, 114, 157 TE Only:</p> <p><b>Grade 2</b> SE/TE: 218</p> <p><b>Grade 3</b> SE/TE: 230, 346</p> <p><b>Grade 4</b> SE/TE: 353-355</p> <p><b>Grade 5</b> SE/TE: 93, 307 TE Only: 314C</p>
<p>G.4.4 Identify* the combinations of simple machines in a device used in the home, the workplace, or elsewhere in the community, to make or repair things, or to move goods or people</p>	<p><b>Grade K</b> SE: 99 TE: 166, 170-174</p> <p><b>Grade 1</b> TE Only: 140G-140H</p> <p><b>Grade 2</b> SE/TE: 228-233, 234-235 TE Only: 235a-235d</p> <p><b>Grade 3</b> SE/TE: 4-7, 350, 352-355, 364 TE Only: 338C-338D</p> <p><b>Grade 5</b> SE/TE: 364-367, 380</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<p>G.4.5 Ask questions to find answers about how devices and machines were invented and produced</p>	<p><b>Grade K</b> SE: 82 TE: 137</p> <p><b>Grade 1</b> SE/TE: 34, 202-230</p> <p><b>Grade 2</b> SE/TE: 218, 222-227</p> <p><b>Grade 3</b> SE/TE: 1987, 358-361</p> <p><b>Grade 4</b> SE/TE: 352-353 TE Only:</p> <p><b>Grade 5</b> SE/TE: 357-363</p>

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Wisconsin Model Academic Standards for Science, Grade 4 Standards	Interactive Science ©2016 Grades K-5
<b>Science, Standard H: Science in Personal and Social Perspectives Performance Standards - Grade 4</b>	
By the end of <b>grade four</b> , students will:	
<p>H.4.1 Describe* how science and technology have helped, and in some cases hindered, progress in providing better food, more rapid information, quicker and safer transportation, and more effective health care</p>	<p><b>Grade 1</b> <b>SE/TE:</b> 34, 201-203</p> <p><b>Grade 2</b> <b>SE/TE:</b> 6-15, 218-221, 236 <b>TE Only:</b> 160G</p> <p><b>Grade 3</b> <b>SE/TE:</b> 346, 348</p> <p><b>Grade 4</b> <b>SE/TE:</b> 45, 70, 77, 173, 332, 351-355, 356-363</p> <p><b>Grade 5</b> <b>SE/TE:</b> 93, 244, 374-379 <b>TE Only:</b> 314C, 360C</p>
<p>H.4.2 Using the science themes*, identify* local and state issues that are helped by science and technology and explain* how science and technology can also cause a problem</p>	<p><b>Grade K</b> <b>TE:</b> 109e</p> <p><b>Grade 1</b> <b>SE/TE:</b> 220-221 <b>TE Only:</b> 166</p> <p><b>Grade 2</b> <b>SE/TE:</b> 219</p> <p><b>Grade 3</b> <b>SE/TE:</b> 195, 230, 290-291, 347 <b>TE Only:</b> 245h</p> <p><b>Grade 4</b> <b>SE/TE:</b> 4-7, 197, 289, 373 <b>TE Only:</b> 19, 342D</p> <p><b>Grade 5</b> <b>SE/TE:</b> 4-7, 175-177, 244, 369-373</p>

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<b>Wisconsin Model Academic Standards for Science, Grade 4 Standards</b>	<b>Interactive Science ©2016 Grades K-5</b>
<p>H.4.3 Show* how science has contributed to meeting personal needs, including hygiene, nutrition, exercise, safety, and health care</p>	<p><b>Grade K</b> SE: 64, 80 TE: 119, 134-135</p> <p><b>Grade 1</b> SE/TE: 166-167 TE Only: 2D</p> <p><b>Grade 2</b> SE/TE: 6-15 TE Only: 160D</p> <p><b>Grade 3</b> TE Only: 1D, 182</p> <p><b>Grade 4</b> SE/TE: 300-303 TE Only: 296D</p> <p><b>Grade 5</b> SE/TE: 20, 331, 373</p>
<p>H.4.4 Develop* a list of issues that citizens must make decisions about and describe* a strategy for becoming informed about the science behind these issues</p>	<p><b>Grade K</b> TE: 71a</p> <p><b>Grade 1</b> SE/TE: 172-175</p> <p><b>Grade 2</b> SE/TE: 192-195, 196-197</p> <p><b>Grade 3</b> SE/TE: 314-319 TE Only: 290D</p> <p><b>Grade 4</b> SE/TE: 324-328</p> <p><b>Grade 5</b> SE/TE: 345-347</p>