

New Energy for Science

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**ScienceFusion, ScienceSaurus, and Science  
& Engineering Levelled Readers** correlated to the  
**Oklahoma Academic Standards for Science:**  
**Disciplinary Core Ideas** Grade 2



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 correlated to the  
**Oklahoma Academic Standards for Science: Disciplinary Core Ideas, Grade 2**

<b>Oklahoma Academic Standards: Disciplinary Core Ideas Grade 2</b>	<b>Citations</b> In the <i>ScienceFusion</i> digital curriculum, students encounter the same science concepts, vocabulary, and inquiry as they see in the Student Edition, but written with new examples or scenarios to provide an alternative digital experience for every write-in textbook lesson.
<b>2-PS1-1: Matter and Its Interactions</b>	
<p><b>Structure and Properties of Matter:</b></p> <ul style="list-style-type: none"> <li>• Different kinds of matter exist and many of them can be either solid or liquid, depending on temperature.</li> </ul>	<p><b>ScienceFusion Grade 2</b>            SE/Digital Curriculum U9 L1: What Is Matter?, pp. 349–360             TE/Digital Curriculum U9 L1: What Is Matter?, pp. 349A–360A</p> <p><b>Science and Engineering Leveled Readers: Grade 2</b>  <b>Grade 2 Unit 3 On-Level/Extra-Support Readers: <i>How Can We Learn About Matter?</i></b>  <b>Grade 2 Teacher Guide:</b> pages 25–32</p> <p><b>Grade 2 Unit 3 Enrichment Reader: <i>Making Coins</i></b>  <b>Grade 2 Teacher Guide:</b> pages 33–36</p> <p><b>ScienceSaurus Grades 2–3 (Red Level)</b>            Pages 236–241, 245, 248</p>

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<p><b>Structure and Properties of Matter:</b></p> <ul style="list-style-type: none"> <li>Matter can be described and classified by its observable properties.</li> </ul>	<p>In the <i>ScienceFusion</i> digital curriculum, students encounter the same science concepts, vocabulary, and inquiry as they see in the Student Edition, but written with new examples or scenarios to provide an alternative digital experience for every write-in textbook lesson.</p> <p><b><u>ScienceFusion Grade 2</u></b>                      SE/Digital Curriculum U9 L1: What Is Matter?, pp. 349–360                       TE/Digital Curriculum U9 L1: What Is Matter?, pp. 349A–360A</p> <p><b><u>Science and Engineering Leveled Readers: Grade 2</u></b>  <b>Grade 2 Unit 3 On-Level/Extra-Support Readers:</b> <i>How Can We Learn About Matter?</i>  <b>Grade 2 Teacher Guide:</b> pages 25–32</p> <p><b>Grade 2 Unit 3 Enrichment Reader:</b> <i>Making Coins</i>  <b>Grade 2 Teacher Guide:</b> pages 33–36</p> <p><b><u>ScienceSaurus Grades 2–3 (Red Level)</u></b>                      Pages 236–241, 245, 248</p>

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<p><b>2-PS1-2: Matter and Its Interactions</b></p>	
<p><b>Structure and Properties of Matter:</b></p> <ul style="list-style-type: none"> <li>Different properties are suited to different purposes.</li> </ul>	<p><b>ScienceFusion Grade 2</b> SE/Digital Curriculum U9 L1: What Is Matter?, pp. 349–360</p> <p>TE/Digital Curriculum U9 L1: What Is Matter?, pp. 349A–360A</p> <p><b>Science and Engineering Leveled Readers: Grade 2</b> <b>Grade 2 Unit 3 On-Level/Extra-Support Readers:</b> <i>How Can We Learn About Matter?</i> <b>Grade 2 Teacher Guide:</b> pages 25–32</p> <p><b>Grade 2 Unit 3 Enrichment Reader:</b> <i>Making Coins</i> <b>Grade 2 Teacher Guide:</b> pages 33–36</p> <p><b>ScienceSaurus Grades 2–3 (Red Level)</b> Pages 236–241, 245, 248</p>
<p>* <i>Connections to Engineering, Technology, and Application of Science</i></p> <p><b>Influence of Engineering, Technology, and Science on Society and the Natural World:</b></p> <ul style="list-style-type: none"> <li>Every human-made product is designed by applying some knowledge of the natural world and is built using materials derived from the natural world.</li> </ul>	<p><b>Science and Engineering Leveled Readers: Grade 2</b> <b>Grade 2 Unit 3 On-Level/Extra-Support Readers:</b> <i>How Can We Learn About Matter?</i> <b>Grade 2 Teacher Guide:</b> pages 25–32</p> <p><b>ScienceSaurus Grades 2–3 (Red Level)</b> Page 239</p>

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<p><b>2-PS1-3: Matter and Its Interactions</b></p>	
<p><b>Structure and Properties of Matter:</b></p> <ul style="list-style-type: none"> <li>• Different properties are suited to different purposes.</li> </ul>	<p><b>ScienceFusion Grade 2</b> SE/Digital Curriculum U9 L1: What Is Matter?, pp. 349–360  TE/Digital Curriculum U9 L1: What Is Matter?, pp. 349A–360A</p> <p><b>Science and Engineering Leveled Readers: Grade 2</b> <b>Grade 2 Unit 3 On-Level/Extra-Support Readers:</b> <i>How Can We Learn About Matter?</i> <b>Grade 2 Teacher Guide:</b> pages 25–32</p> <p><b>ScienceSaurus Grades 2–3 (Red Level)</b> Pages 238–239</p>
<p><b>Structure and Properties of Matter:</b></p> <ul style="list-style-type: none"> <li>• A great variety of objects can be built up from a small set of pieces.</li> </ul>	<p><b>ScienceSaurus Grades 2–3 (Red Level)</b> Pages 240</p>

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<p><b>2-PS1-4: Matter and Its Interactions</b></p>	
<p><b>Chemical Reactions:</b></p> <ul style="list-style-type: none"> <li>• Heating or cooling a substance may cause changes that can be observed.</li> <li>• Sometimes these changes are reversible, and sometimes they are not.</li> </ul>	<p><b>ScienceFusion Grade 2</b> SE/Digital Curriculum U9 L3: How Does Matter Change?, pp. 365–372</p> <p>TE/Digital Curriculum U9 L3: How Does Matter Change?, pp. 365A–372A</p> <p><b>Science and Engineering Leveled Readers: Grade 2</b> <b>Grade 2 Unit 3 On-Level/Extra-Support Readers:</b> <i>How Can We Learn About Matter?</i> <b>Grade 2 Teacher Guide</b> pages 25–32</p> <p><b>Grade 2 Unit 3 Enrichment Reader:</b> <i>Making Coins</i> <b>Grade 2 Teacher Guide</b> pages 33–36</p> <p><b>ScienceSaurus Grades 2–3 (Red Level)</b> Pages 246–247, 249</p>

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<p><b>2-LS2-1: Ecosystems: Interactions, Energy, and Dynamics</b></p>	
<p><b>Interdependent Relationships in Ecosystems:</b></p> <ul style="list-style-type: none"> <li>Plants depend on water and light to grow.</li> </ul>	<p><b>ScienceFusion Grade 2</b> SE/Digital Curriculum U4 L1: What Are Plant Needs?, pp. 137–144  TE/Digital Curriculum U4 L1: What Are Plant Needs?, pp. 137A–144A</p> <p><b>Science and Engineering Leveled Readers: Grade 2</b> <b>Grade 2 Unit 8 On-Level/Extra-Support Readers:</b> <i>What Do Plants and Animals Need?</i> <b>Grade 2 Teacher Guide:</b> pages 85–92</p> <p><b>Grade 2 Unit 8 Enrichment Reader:</b> <i>My Science Fair Project</i> <b>Grade 2 Teacher Guide:</b> pages 93–96</p> <p><b>Grade 2 Unit 9 On-Level/Extra-Support Readers:</b> <i>How Do Living Things Survive in Their Environment?</i> <b>Grade 2 Teacher Guide:</b> pages 97–104</p> <p><b>Grade 2 Unit 9 Enrichment Reader:</b> <i>Meet the Amazing Monarch Butterfly</i> <b>Grade 2 Teacher Guide:</b> pages 105–108</p> <p><b>ScienceSaurus Grades 2–3 (Red Level)</b> Pages 86–89, 92, 148, 161</p>



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<p><b>2-LS2-2: Ecosystems: Interactions, Energy, and Dynamics</b></p>	
<p><b>Interdependent Relationships in Ecosystems:</b></p> <ul style="list-style-type: none"> <li>Plants depend on animals for pollination or to move their seeds around.</li> </ul>	<p><b>ScienceFusion Grade 2</b></p> <p>SE/Digital Curriculum U5 L1: How Do Plants and Animals Need One Another?, pp. 181–192</p> <p>TE/Digital Curriculum U5 L1: How Do Plants and Animals Need One Another?, pp. 181A–192A</p> <p><b>Science and Engineering Leveled Readers: Grade 2</b></p> <p><b>Grade 2 Unit 9 On-Level/Extra-Support Readers:</b> <i>How Do Living Things Survive in Their Environment?</i></p> <p><b>Grade 2 Teacher Guide:</b> pages 97–104</p> <p><b>Grade 2 Unit 9 Enrichment Reader:</b> <i>Meet the Amazing Monarch Butterfly</i></p> <p><b>Grade 2 Teacher Guide:</b> pages 105–108</p> <p><b>ScienceSaurus Grades 2–3 (Red Level)</b></p> <p>Page 151</p>



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<p><b>Developing Possible Solutions:</b>                      (secondary to 2-LS2-2)</p> <ul style="list-style-type: none"> <li>• Designs can be conveyed through sketches, drawings, or physical models.</li> <li>• These representations are useful in communicating ideas for a problem’s solutions to other people.</li> </ul>	<p>In the <i>ScienceFusion</i> digital curriculum, students encounter the same science concepts, vocabulary, and inquiry as they see in the Student Edition, but written with new examples or scenarios to provide an alternative digital experience for every write-in textbook lesson.</p> <p><b><u>ScienceFusion Grade 2</u></b></p> <table border="0"> <tr> <td style="vertical-align: top;">SE/Digital Curriculum</td> <td>U1 L1: How Do We Use Inquiry Skills?, pp. 3–12 U2 L1: What Is the Design Process?, pp. 43–54</td> </tr> <tr> <td style="vertical-align: top;">TE/Digital Curriculum</td> <td>U1 L1: How Do We Use Inquiry Skills?, pp. 3A–12A U2 L1: What Is the Design Process?, pp. 43A–54A</td> </tr> </table> <p><b><u>Science and Engineering Leveled Readers: Grade 2</u></b></p> <p><b>Grade 2 Unit 8 Enrichment Reader:</b> <i>My Science Fair Project</i>  <b>Grade 2 Teacher Guide:</b> pages 93–96</p> <p><b>Grade 2 Unit 2 On-Level/Extra-Support Readers:</b> <i>How Do Engineers Solve Problems?</i>  <b>Grade 2 Teacher Guide:</b> pages 13–20</p> <p><b>Grade 2 Unit 2 Enrichment Reader:</b> <i>Ben’s Engineering Project</i>  <b>Grade 2 Teacher Guide:</b> pages 21–24</p> <p><b><u>ScienceSaurus Grades 2–3 (Red Level)</u></b>                      Pages 74, 77</p>	SE/Digital Curriculum	U1 L1: How Do We Use Inquiry Skills?, pp. 3–12 U2 L1: What Is the Design Process?, pp. 43–54	TE/Digital Curriculum	U1 L1: How Do We Use Inquiry Skills?, pp. 3A–12A U2 L1: What Is the Design Process?, pp. 43A–54A
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<p><b>2-LS4-1: Biological Unity and Diversity</b></p>	
<p><b>Biodiversity and Humans:</b></p> <ul style="list-style-type: none"> <li>• There are many different kinds of living things in any area, and they exist in different places on land and in water.</li> </ul>	<p><b>ScienceFusion Grade 1</b></p> <p>SE/Digital Curriculum U5 L1: Where Do Plants and Animals Live?, pp. 175–186</p> <p>TE/Digital Curriculum U5 L1: Where Do Plants and Animals Live?, pp. 175A–186A</p> <p><b>Science and Engineering Leveled Readers: Grade 2</b>  <b>Grade 2 Unit 9 On-Level/Extra-Support Readers:</b> <i>How Do Living Things Survive in Their Environment?</i>  <b>Grade 2 Teacher Guide:</b> pages 97–104</p> <p><b>Grade 2 Unit 9 Enrichment Reader:</b> <i>Meet the Amazing Monarch Butterfly</i>  <b>Grade 2 Teacher Guide:</b> pages 105–108</p> <p><b>ScienceSaurus Grades 2–3 (Red Level)</b>  Pages 129–131</p>
<p><b>2-ESS1-1: Earth’s Place in the Universe</b></p>	
<p><b>The History of Planet Earth:</b></p> <ul style="list-style-type: none"> <li>• Some events happen very quickly; others occur very slowly, over a time period much longer than one can observe.</li> </ul>	<p><b>ScienceFusion Grade 2</b></p> <p>SE/Digital Curriculum U6 L1: What Changes Earth?, pp. 227–238</p> <p>TE/Digital Curriculum U6 L1: What Changes Earth?, pp. 227A–238A</p> <p><b>ScienceSaurus Grades 2–3 (Red Level)</b>  Pages 168–175</p>

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<p><b>2-ESS2-1: Earth's Systems</b></p>	
<p><b>Earth Materials and Systems:</b></p> <ul style="list-style-type: none"> <li>• Wind and water can change the shape of the land.</li> </ul>	<p><b>ScienceFusion Grade 2</b> SE/Digital Curriculum U6 L1: What Changes Earth?, pp. 227–238  TE/Digital Curriculum U6 L1: What Changes Earth?, pp. 227A–238A  <b>ScienceSaurus Grades 2–3 (Red Level)</b> Pages 168–171, 174</p>
<p><b>Optimizing the Design Solution:</b> (secondary to 2-ESS2-1)</p> <ul style="list-style-type: none"> <li>• Because there is always more than one possible solution to a problem, it is useful to compare and test designs.</li> </ul>	<p><b>ScienceFusion Grade 2</b> SE/Digital Curriculum U2 L1: What Is the Design Process?, pp. 43–54  TE/Digital Curriculum U2 L1: What Is the Design Process?, pp. 43A–54A  <b>ScienceSaurus Grades 2–3 (Red Level)</b> Pages 69–71, 73–77  <b>Science and Engineering Leveled Readers: Grade 2</b> <b>Grade 2 Unit 2 On-Level/Extra-Support Readers: <i>How Do Engineers Solve Problems?</i></b> <b>Grade 2 Teacher Guide:</b> pages 13–20  <b>Grade 2 Unit 2 Enrichment Reader: <i>Ben's Engineering Project</i></b> <b>Grade 2 Teacher Guide:</b> pages 21–24</p>

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<p><i>* Connections to Engineering, Technology, and Application of Science</i></p> <p><b>Influence of Engineering, Technology, and Science on Society and the Natural World:</b></p> <ul style="list-style-type: none"> <li>Developing and using technology has impacts on the natural world.</li> </ul>	<p><b><u>ScienceSaurus Grades 2–3 (Red Level)</u></b> Pages 69–71, 73–77</p> <p><b><u>Science and Engineering Leveled Readers: Grade 2</u></b> <b>Grade 2 Unit 2 On-Level/Extra-Support Readers:</b> <i>How Do Engineers Solve Problems?</i> <b>Grade 2 Teacher Guide:</b> pages 13–20</p>
<p><b>2-ESS2-2: Earth’s Systems</b></p>	
<p><b>Plate Tectonics and Large-Scale System Interactions:</b></p> <ul style="list-style-type: none"> <li>Maps show where things are located.</li> </ul>	<p><b><u>ScienceSaurus Grades 2–3 (Red Level)</u></b> Pages 71–72, 380–385</p>
<p><b>Plate Tectonics and Large-Scale System Interactions:</b></p> <ul style="list-style-type: none"> <li>One can map the shapes and kinds of land and water in any area.</li> </ul>	<p><b><u>ScienceSaurus Grades 2–3 (Red Level)</u></b> Pages 71–72, 380–385</p>
<p><b>2-ESS2-3: Earth’s Systems</b></p>	
<p><b>The Roles of Water in Earth’s Surface Processes:</b></p> <ul style="list-style-type: none"> <li>Water is found in the ocean, rivers, lakes, and ponds.</li> </ul>	<p><b><u>ScienceSaurus Grades 2–3 (Red Level)</u></b> Pages 158, 160–165</p>
<p><b>The Roles of Water in Earth’s Surface Processes:</b></p> <ul style="list-style-type: none"> <li>Water exists as solid ice and liquid form.</li> </ul>	<p><b><u>ScienceSaurus Grades 2–3 (Red Level)</u></b> Pages 160, 162–165, 245</p>