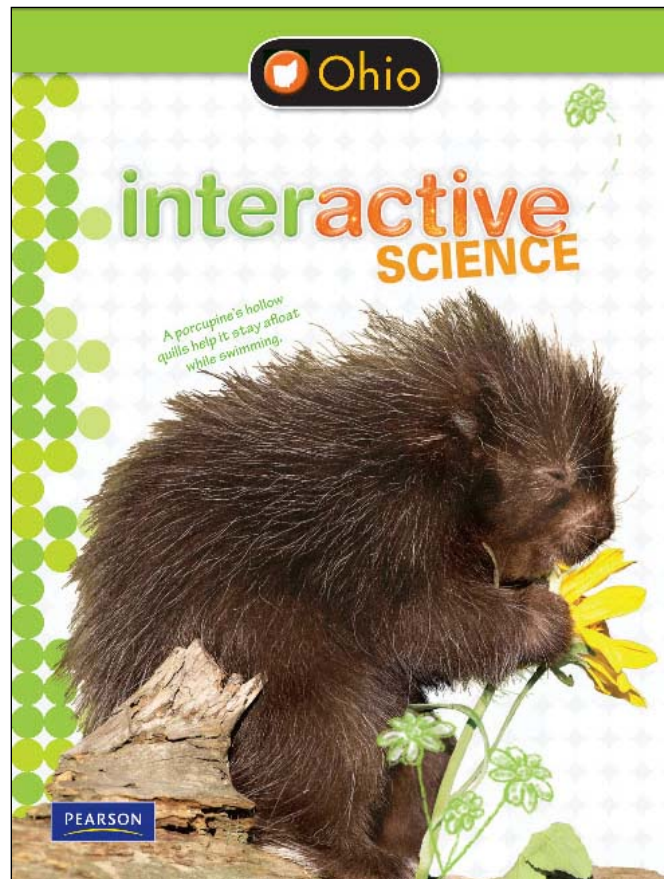


A Correlation of
Ohio Interactive Science
Grade 2 ©2017



To the
Ohio
2018 Learning Standards for Science
Grade 2

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To the
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Introduction

The following document indicates how closely *Interactive Science Ohio* ©2017 supports Ohio's 2018 Learning Standards for Science. Correlation references are to the Student Edition, and Teacher Edition, and Realize Digital Resources.

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 2017 edition of *Interactive Science* support the Next Generation Science Standards (NGSS) 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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(ESS) Earth and Space Science	
The Atmosphere	
This topic focuses on air and water as they relate to weather and weather changes that can be observed and measured.	
<p>(2.ESS.1.a) Air has properties that can be observed and measured. The transfer of energy in the atmosphere causes air movement, which is felt as wind. Wind speed and direction can be measured.</p>	<p>SE/TE: Inquiry Explore It! Which way does the wind blow?, 102 Why We Measure Weather, 107 Tools for Measuring Weather, 108 Hurricanes, 119 Chapter 4 Chapter Review, 127</p> <p>TE Only: Chapter 4 Test, 127A</p> <p>Realize™ Digital Resources: Chapter 4: Weather: >Lesson 2: How can you describe weather?>Which way does the wind blow? Virtual Lab;>How can you describe the weather? 60-Sec Video >Lesson 3: How can you measure weather?>How can you measure weather? 60-Sec Video;>Tools for Measuring the Weather Quests, STEM, and Program Resources >Program Resources>Multidisciplinary Flipchart>Weather Words</p>

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<p>(2.ESS.2.a) Water is present in the atmosphere as water vapor. When water vapor in the atmosphere cools, it forms clouds, fog, rain, ice, snow, sleet or hail.</p>	<p>SE/TE: Clouds in the Sky, 99 The Water Cycle, 100-101 Wet Weather, 104 Inquiry Explore It! How much rain falls?, 106 Chapter 4 Study Guide, 125 Chapter 4 Chapter Review, 126</p> <p>TE Only: Chapter 4 Test, 127A</p> <p>Realize™ Digital Resources: Chapter 4: Weather: >Lesson 1: What is the water cycle?>What is the water cycle? 60-Sec Video >Lesson 2: How can you describe weather?>How can you describe the weather? 60-Sec Video >Lesson 3: How can you measure weather?>How much rain falls? Virtual Lab;>How can you measure weather? 60-Sec Video >Chapter Leveled Readers>Weather</p> <p>Realize™ continued: Quests, STEM, and Program Resources >Program Resources>Multidisciplinary Flipchart>How Water Can Change;>How Much Rain?</p>

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<p>(2.ESS.3.a) Changes in energy affect all aspects of weather, including temperature, precipitation, and wind.</p>	<p>SE/TE: The Water Cycle, 100-101 Weather, 103 Wet Weather, 104 Weather Patterns, 111 Tornadoes, 116 Hurricanes, 118 Inquiry Investigate It! What is your weather like?, 120-121 Chapter 4 Study Guide, 125 Chapter 4 Chapter Review, 126</p> <p>TE Only: Chapter 4 Test, 127A</p> <p>Realize™ Digital Resources: Chapter 4: Weather: >Lesson 1: What is the water cycle?>What is the water cycle? 60-Sec Video >Lesson 2: How can you describe weather?>How can you describe the weather? 60-Sec Video >Lesson 4: How does weather change?>How does weather change? 60-Sec Video >Chapter Labs>What is your weather like? Open Inquiry, Directed Inquiry, Guided Inquiry >Chapter Leveled Readers>Understanding the Weather</p> <p>Quests, STEM, and Program Resources >Program Resources>Science Songs and Coloring Book Pages>What’s the Weather? >Program Resources>Multidisciplinary Flipchart>Weather Words</p>

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(LS) Life Science	
Interactions within Habitats	
This topic focuses on how ecosystems work by observations of simple interactions between the biotic/living and abiotic/nonliving parts of an ecosystem. Just as living things impact the environment in which they live, the environment impacts living things.	
<p>(2.LS.1.a) Living things function and interact with their physical environments. Living things cause changes in the environments where they live; the changes can be very noticeable or slightly noticeable, fast or slow.</p>	<p>SE/TE: Inquiry Try It! What do plants need to be healthy?, 70 Inquiry Explore It! Where can plants live?, 72 Habitats, 73 Forest, 74-75 Ocean/Desert, 76 Wetland/Rain Forest, 77 Inquiry Investigate It! How does water affect plant growth?, 82-83 Chapter 3 Study Guide, 87 Unit B Performance-Based Assessment, 92</p> <p>Realize™ Digital Resources: Chapter 3: Plants and Animals: >Lesson 1: Where do plants and animals live?>Where do plants and animals live? Editable Pres;>Where Plants and Animals Live 60-Sec Video;>Plants and Animals Around You >Chapter Labs>How does water affect plant growth? Directed Inquiry;>What will happen if a plant is given a lot of water? Guided Inquiry;>What other things do plants need to grow? Open Inquiry >Chapter Leveled Readers>Discovering Plants, Animals, and Their Habitats;>Needs and Habitats >Lesson 2: What is a fossil?>Changing Land Virtual Lab Quests, STEM, and Program Resources >Quest>Describe a Habitat Quest Kick-Off;>Explore Interactions in Water Habitats Quest Check;>Where can plants live? Quest Check Lab >Program Resources>Reader's Theater;>The Ecologist Reader's Theater</p>

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(2.LS.2.a) Some kinds of organisms become extinct when their basic needs are no longer met or the environment changes.	<p>SE/TE: What Fossils Show, 81 Chapter 3 Study Guide, 87 Chapter 3 Chapter Review, 88</p> <p>Realize™ Digital Resources: Chapter 3: Plants and Animals: >Lesson 2: What is a fossil?>What is a fossil? 60-Sec Video >Chapter Labs>What will happen if a plant is given a lot of water? Guided Inquiry Quests, STEM, and Program Resources >Program Resources>Reader’s Theater;>The Ecologist Reader’s Theater</p>
(PS) Physical Science	
Changes in Motion	
This topic focuses on observing the relationship between forces and motion.	
(2.PS.1.a) Motion can increase, change direction or stop depending on the force applied.	<p>SE/TE: Chapter 6: Energy, Motion, and Force: Inquiry Try It! How much force does it take to move objects?, 158 Motion, 161 Directions, 164 Inquiry Investigate It! How high will a ball bounce?, 174-175 Chapter 6 Study Guide, 179 Chapter 6 Chapter Review, 180 Unit D Performance-Based Assessment</p> <p>TE Only: Chapter 6 Test, 181A</p> <p>Realize™ Digital Resources: Chapter 6: Energy, Motion, and Force: >Chapter Labs>How high will a ball bounce? Directed Inquiry, Guided Inquiry, Open Inquiry >Chapter Leveled Readers>Force and Motion;>Exploring Motion and Force Quests, STEM, and Program Resources >Program Resources>Multidisciplinary Flipchart>Motion and Force</p>

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(2.PS.1.b) The change in motion of an object is related to the size of the force.	<p>SE/TE: Inquiry Try It! How much force does it take to move objects?, 158 Force, 162-163 Lightning Lab: Forces and Movement, 162 Fast and Slow, Near and Far, 165 Inquiry Investigate It! How high will a ball bounce?, 174-175 Chapter 6 Study Guide, 179 Unit D Performance-Based Assessment</p> <p>TE Only: Chapter 6 Test, 181B</p> <p>Realize™ Digital Resources: Chapter 6: Energy, Motion, and Force: >Chapter Labs>How high will a ball bounce? Directed Inquiry, Guided Inquiry, Open Inquiry >Chapter Leveled Readers>Force and Motion;>Exploring Motion and Force Quests, STEM, and Program Resources >Program Resources>Multidisciplinary Flipchart>Motion and Force</p>
(2.PS.1.c) Some forces act without touching, such as using a magnet to move an object or objects falling to the ground.	<p>SE/TE: Chapter 6: Energy, Motion, and Force: Inquiry Explore It! What can a magnet pull through?, 166 Magnets, 167 At-Home Lab: Magnets and Movement, 168 How Magnets Move Objects, 169 Inquiry Explore It! How do heavier objects fall?, 170 Gravity, 171 Gravity and Weight, 172-173 Chapter 6 Study Guide, 179 Chapter 6 Chapter Review, 180 Unit D Performance-Based Assessment</p> <p>Realize™ Digital Resources: Chapter 6: Energy, Motion, and Force: >Lesson 2: What are magnets?>What are magnets? 60-Sec Video >Lesson 3: What is gravity?>What is gravity? 60-Sec Video >Chapter Leveled Readers>Fun with Magnets Quests, STEM, and Program Resources >Program Resources>Multidisciplinary Flipchart>Magnetic Poles;>Gravity Game</p>