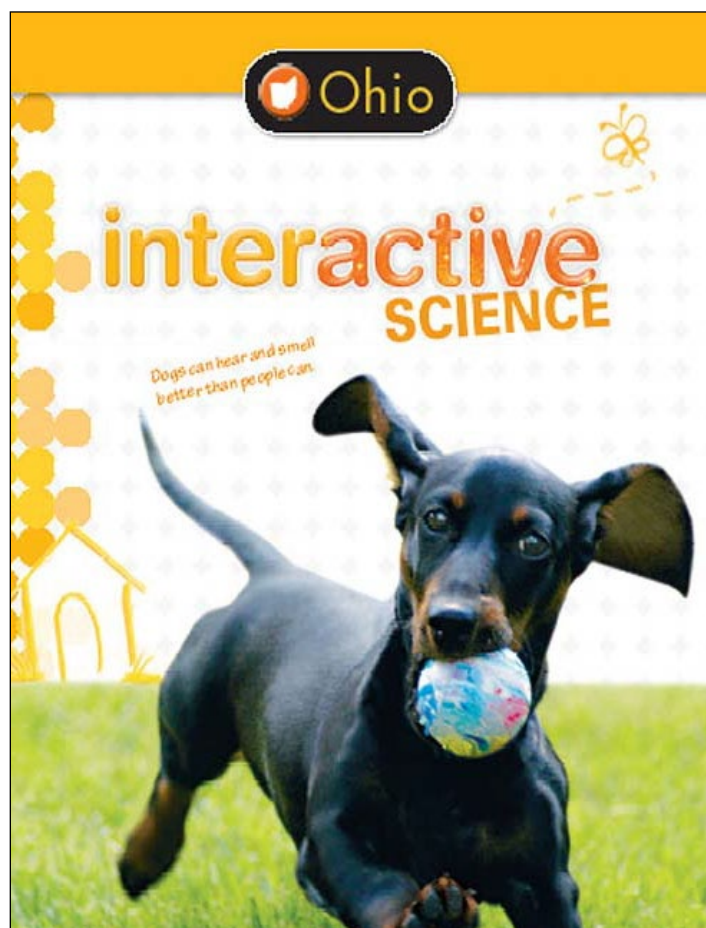


A Correlation of
**Ohio Interactive Science
Grade 1 ©2017**



To the
Ohio
2018 Learning Standards for Science
Grade 1

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To the
Ohio 2018 Learning Standards for Science, Grade 1**

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	
Sun, Energy, and Weather	
This topic focuses on the sun as a source of energy and energy changes that occur to land, air and water.	
(1.ESS.1.a) Sunlight warms Earth’s land, air and water. The amount of exposure to sunlight affects the amount of warming or cooling of air, water and land.	<p>SE/TE: Inquiry Explore It! How can the sun make temperatures change?, 122 Why We Need the Sun, 124 Inquiry Explore It! When is it warm or cool?, 130 Chapter 4 Study Guide, 139 Chapter 4 Chapter Review, 140 Unit C Performance-Based Assessment, 144</p> <p>Realize™ Digital Resources: Chapter 4: Earth and Sky : >Lesson 2: What is the sun?>How can the sun make temperature change?;>What is the sun?;>What is the sun? 60 Sec Video Quests, STEM, and Program Resources >STEM>How Does a Greenhouse Work? STEM Activity</p>
(1.ESS.2.a) The physical properties of water can change. These changes occur due to changing energy. Water can change from a liquid to a solid and from a solid to a liquid.	<p>SE/TE: Inquiry Explore It! How can water change?, 126 Water Changes, 127 The Water Cycle, 128-129 At-Home Lab: Evaporation, 129 Chapter 4 Study Guide, 139 Chapter 4 Chapter Review, 140</p> <p>TE Only: Chapter 4 Test, 1441A-B</p> <p>Realize™ Digital Resources: Chapter 4: Earth and Sky : >Lesson 3: What is the water cycle?>.How can water change?;>What is the water cycle? 60-Sec Video;>What is the water cycle? Quests, STEM, and Program Resources >Program Resources>Multidisciplinary Flipchart>Water Cycle Puppet Show</p>

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(LS) Life Science	
Basic Needs of Living Things	
This topic focuses on the physical needs of living things in Ohio. Energy from the sun or food, nutrients, water, shelter and air are some of the physical needs of living things.	
<p>(1.LS.1.a) Living things require energy, water, and a particular range of temperatures in their environments. Plants get energy from sunlight. Animals get energy from plants and other animals. Living things acquire resources from the living and nonliving components of the environment.</p>	<p>SE/TE: Inquiry Try It! What does a cricket need?, 74 Inquiry Explore It! Do Plants need water?, 80 Needs, 81 Needs of Plants, 82 Needs of Animals, 84 Needs of People, 85 Desert Environment, 90 Inquiry Explore It! How do some turtles stay warm in winter?, 92 Marsh Environment, 94 Ocean Environment, 96 Inquiry Investigate It! Do plants need light?, 98-99 Chapter 3 Study Guide, 105 Unit B Performance-Based Assessment, 110 Why We Need the Sun, 122</p> <p>Realize™ Digital Resources: Chapter 3: Living Things and Their Environment: >Lesson 2: What do living things need?>Do plants need water?;>What do living things need? 60 Sec Video >Lesson 3: How do plants and animals live in land environments?>How do plants and animals live in land environments? 60-Sec Video >Lesson 4: How do plants and animals live in water environments?>How do some turtles stay warm in winter? >Chapter Labs>Do plants need light? Directed Inquiry, Guided Inquiry, Open Inquiry Chapter 4: Earth and Sky : >Lesson 2: What is the sun?> What is the sun?;> What is the sun? 60-Sec Video Quests, STEM, and Program Resources >STEM>How Does a Greenhouse Work? STEM Activity >Program Resources>Science Songs and Coloring Book Pages>Feed the Birds!;>Is it Living? I'd like to Know</p>

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<p>(1.LS.2.a) Resources are necessary to meet the needs of an individual and populations of individuals. Living things interact with their physical environments as they meet those needs. Effects of seasonal changes within the local environment directly impact the availability of resources.</p>	<p>SE/TE: Inquiry Try It! What does a cricket need?, 74 Let's Read Science! Draw Conclusions, 75 Inquiry Explore It! Do Plants need water?, 80 Needs, 81 Needs of Plants, 82 Nutrients, 83 Needs of Animals, 84 Environments, 87 Forest Environment, 88 Prairie Environment, 89 Desert Environment, 90 At-Home Lab: Local Environment, 90 Water Environments, 93 Marsh Environment, 94 Unit B Performance-Based Assessment, 110 Chapter 3 Test, 107A-B</p> <p>Realize™ Digital Resources: Chapter 3: Living Things and Their Environment: >Lesson 3: How do plants and animals live in land environments?>How do plants and animals live in land environments? 60-Sec Video Quests, STEM, and Program Resources >Program Resources>Reader's Theater>The Naturalist Reader's Theatre >Program Resources>Multidisciplinary Flipchart>Shoebox Habitats;>Trees in Four Seasons;>How We Use Resources >Program Resources>Science Songs and Coloring Book Pages>Feed the Birds!</p>

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(PS) Physical Science	
Motion and Materials	
This topic focuses on the changes in properties that occur in objects and materials. Changes of position of an object are a result of pushing or pulling.	
<p>(1.PS.1.a) Objects and materials change when exposed to various conditions, such as heating or cooling. Changes in temperature are a result of changes in energy. Not all materials change in the same way.</p>	<p>SE/TE: Inquiry Explore It! How can water change?, 126 Water Changes, 127 The Water Cycle, 128-129 At-Home Lab: Evaporation, 129 Changes in Matter, 161 Bend and Cut, 162 At-Home Lab: Objects Change, 162 Chapter 5 Study Guide, 171 Chapter 5 Chapter Review, 172</p> <p>TE Only: Chapter 5 Test, 173A-B</p> <p>Realize™ Digital Resources: Chapter 4: Earth and Sky: >Lesson 3: What is the water cycle?>How can water change?;>What is the water cycle? 60-Sec Video Chapter 5: Matter: >Lesson 3: How can matter change?>How Can Matter Change? 60-Sec Video Quests, STEM, and Program Resources >Program Resources>Multidisciplinary Flipchart>Changing Objects</p>
<p>(1.PS.2.a) The position of an object can be described by locating it relative to another object or to the object’s surroundings. An object is in motion when its position is changing.</p>	<p>SE/TE: Chapter 6: Movement: Inquiry Try It! How can you make a toy move?, 176 Ways to Move, 179 More Ways to Move, 180 Inquiry Investigate It! How do objects move?, 190-191 Science in Your Backyard: Playgrounds, 192 Chapter 6 Study Guide, 195 Chapter 6 Chapter Review, 196-197 Unit D Performance-Based Assessment, 200 TE Chapter 6: Movement: Chapter 6 Test, 197A-B</p> <p>Realize™ Digital Resources: Chapter 6: Movement: >Lesson 1: How can objects move?>How can objects move? 60-Sec Video >Chapter Labs>How do objects move? (Directed Inquiry, Guided Inquiry, Open Inquiry).</p>

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<p>(1.PS.2.b) The motion of an object can be affected by pushing or pulling. A push or pull is a force that can make an object move faster, slower or go in a different direction. Changes in motion are a result of changes in energy.</p>	<p>SE/TE: Inquiry Try It! How can you make a toy move?, 176 Inquiry Explore It! How can water move?, 178 More Ways to Move, 180 Lightning Lab: On the Move, 181 Inquiry Explore It! What makes the toy car move?, 182 Force, 183 What a Force Can Do, 184 More Force, Less Force, 185 At-Home Lab: Roll Away, 185 Pull of Gravity, 187 Hold Up, 188 Pull Down, 189 Inquiry Investigate It! How do objects move?, 190-191 Science in Your Backyard: Playgrounds, 192 Chapter 6 Study Guide, 195 Chapter 6 Chapter Review, 196-197 Inquiry Apply It! What affects how far a marble rolls?, 198-199 Unit D Performance-Based Assessment, 200</p> <p>TE Only: Chapter 6 Test, 197A-B</p> <p>Realize™ Digital Resources: Chapter 6: Movement: >Lesson 1: How can objects move?>How can objects move? 60-Sec Video >Lesson 2: What is a force?>What is a force? 60-Sec Video >Chapter Labs>How do objects move? Directed Inquiry, Guided Inquiry, Open Inquiry Quests, STEM, and Program Resources >Program Resources>Multidisciplinary Flipchart>Push and Pull >Program Resources>Science Songs and Coloring Book Pages>Pull the Sled!</p>

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