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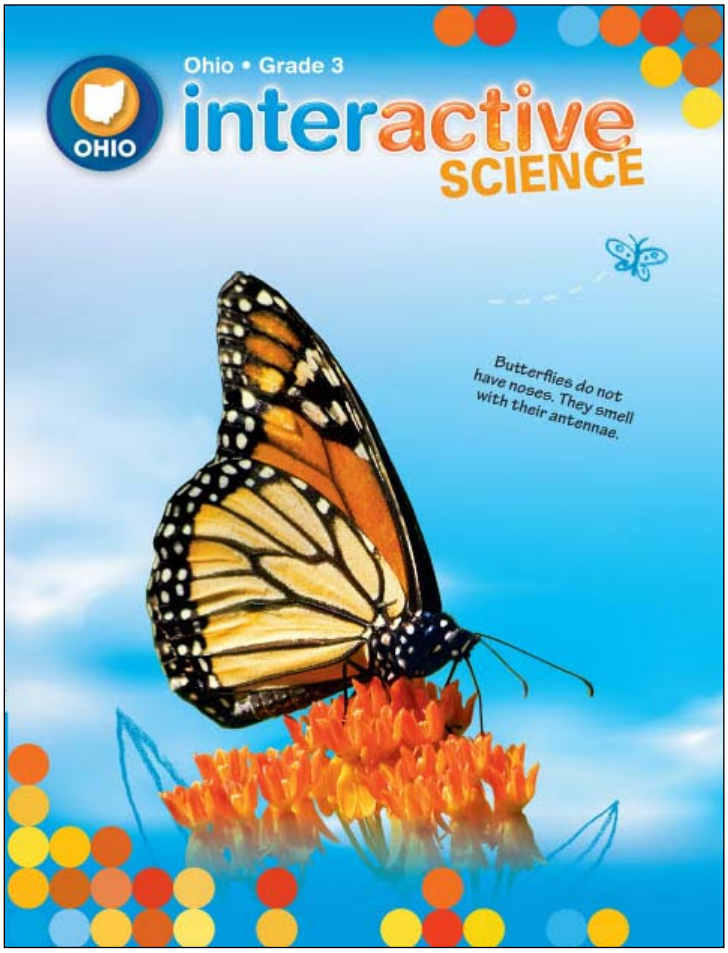

To the

Ohio 2018 Learning Standards for Science Grade 3

Prepared by Savvas Learning Company, formerly Pearson K12 Learning

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To the
Ohio 2018 Learning Standards for Science, Grade 3

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.

SE = Student Edition **TE= Teacher Edition**

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Ohio 2018 Learning Standards for Science Grade 3	Ohio Interactive Science ©2017 Grade 3
(ESS) Earth and Space Science	
Earth's Resources	
This topic focuses on Earth's resources. While resources can be living and nonliving, within this strand, the emphasis is on Earth's nonliving resources, such as water, air, rock, soil and the energy resources they represent.	
(3.ESS.1.a) Soil is composed of pieces of rock, organic material, water and air and has characteristics that can be measured and observed. Use the term "soil", not "dirt". Dirt and soil are not synonymous.	**SE/TE:** Inquiry Try It! What is in soil?, 156 Inquiry Explore It! What makes up soil?, 164 Parts of Soil, 165 Soil Layers, 166-167 Kinds of Soil, 168-169 Do the math! Read a Graph, 168 Chapter 5 Study Guide, 177 Chapter 5 Chapter Review, 178-179 Chapter 5 Ohio Benchmark Practice, 180 Science in Your Backyard: Soil Studies, 181 **TE Only:** Chapter 5 Test, 179A-B **Realize™ Digital Resources:** **Chapter 5: Earth's Materials:** >Lesson 2: What is soil?>What makes up soil?
(3.ESS.1.b) Rocks have specific characteristics that allow them to be sorted and compared. Rocks form in different ways. Air and water are also nonliving resources.	**SE/TE:** Let's Read Science! Main Idea and Details, 157 Inquiry Explore It! How can you sort rocks?, 158 Minerals and Rocks, 159 Identifying Minerals, 160-161 Rock Groups, 161-163 Lightning Lab: Rock Detective, 162 Chapter 5 Study Guide, 177 Chapter 5 Chapter Review, 178-179 Chapter 5 Ohio Benchmark Practice, 180 **TE Only:** Chapter 5 Test, 179A-B

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(3.ESS.2.a) Renewable energy resources, such as wind, water or solar energy, can be replenished within a short amount of time by natural processes.	**SE/TE:** Let's Read Science! Main Idea and Details, 49 Problems and Solutions, 51 Heat and Light, 242 Go Green! Electrical Energy Conservation, 267 Renewable Energy Resources, OH2-OH3 What energy sources do states use to make electricity?, OH5 **Realize™ Digital Resources:** **Quests, STEM, and Program Resources** >STEM>Runaway Water! STEM Activity;>Sun, Light, Energy STEM Activity >Program Resources>Social Studies and Language Arts Connections>Solar Energy and Heat;>The Power of Water
(3.ESS.2.b) Nonrenewable energy is a finite resource, such as natural gas, coal or oil, which cannot be replenished in a short amount of time.	**SE/TE:** Heat and Light, 242 Go Green! Electrical Energy Conservation, 267 Nonrenewable Energy Resources, OH4-OH5
(3.ESS.3.a) Some of Earth's resources become limited due to overuse and/or contamination. Reducing resource use, decreasing waste and/or pollution, recycling and reusing can help conserve these resources.	**SE/TE:** Go Green: Recycling Survey, 21 Go Green! Electrical Energy Conservation, 267 Earth's Resources: Contamination and Overuse, OH6-OH7

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(LS) Life Science	
Behavior, Growth and Changes	
This topic explores life cycles of organisms and the relationship between the natural environment and an organism's (physical and behavioral) traits, which affect its ability to survive and reproduce.	
(3.LS.1.a) Individual organisms inherit many traits from their parents indicating a reliable way to transfer information from one generation to the next.	**SE/TE:** Both Alike and Different, 123 Inherited Characteristics, 124 At-Home Lab: Look Alikes, 124 Chapter 4 Study Guide, 143 Chapter 4 Chapter Review, 144 Chapter 4 Ohio Benchmark Practice, 146 **TE Only:** Chapter 4 Test, 145A-145B **Realize™ Digital Resources:** **Chapter 4: Living Things:** >Lesson 1: How are offspring like their parents?>How are offspring like their parents? 60-Sec Video;>How are offspring like their parents **Realize™ continued:** **Quests, STEM, and Program Resources** >Program Resources> Social Studies and Language Arts Connections>Animals and Inherited Traits
(3.LS.1.b) Some behavioral traits are learned through interactions with the environment and are not inherited.	**SE/TE:** Acquired Characteristics, 125 Learned Behaviors, 127 Chapter 4 Chapter Review, 144 Chapter 4 Ohio Benchmark Practice, 146 **TE Only:** Chapter 4 Test, 145A-145B **Realize™ Digital Resources:** **Chapter 4: Living Things:** >Lesson 1: How are offspring like their parents?> How are offspring like their parents? 60-Sec Video;>How are offspring like their parents Editable Pres;>Characteristics and Behaviors

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(3.LS.2.a) Plants and animals have physical features that are associated with the environments where they live.	**SE/TE:** Types of Stems, 94 Chapter 3 Chapter Review, 114 Chapter 3 Ohio Benchmark Practice, 116 Inquiry Apply It! How can plants survive in the desert?, 148-151 Small Differences in Traits: Differences That Can Help an Animal, 128 **TE Only:** Chapter 3 Test, 115A **Realize™ Digital Resources:** **Chapter 3: Plants** >Lesson 1: How do plants use roots and stems to grow?>Cactus Roots, Stems and Leaves **Chapter 4: Living Things:** >Lesson 1: How are offspring like their parents?>Adaptations and Survival Savvas Flipped Video for Science **Quests, STEM, and Program Resources** >STEMQuest>Characteristics of Organisms in Different Habitats Quest Check Lab Program Resources>Social Studies and Language Arts Connections>Desert Animals
(3.LS.2.b) Plants and animals have certain physical or behavioral characteristics that influence their chances of surviving in particular environments.	**SE/TE:** Inherited Behavior, 126 Small Differences in Traits: Differences That Can Help an Animal, 128 Small Differences in Traits: Differences That Can Harm an Animals, 129 **TE Only:** Chapter 4 Test, 145A-145B **Realize™ Digital Resources:** **Chapter 4: Living Things:** >Lesson 1: How are offspring like their parents?>How are offspring like their parents? 60-Sec Video;>How are offspring like their parents> Editable Pres;> Adaptations and Survival Savvas Flipped Video for Science;>Characteristics and Behaviors **Quests, STEM, and Program Resources** >STEMQuest>Characteristics of Organisms in Different Habitats Quest Check Lab Program Resources>Social Studies and Language Arts Connections>Desert Animals

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(3.LS.3.a) Worldwide, organisms are growing, reproducing, dying and decaying. The details of the life cycle are different for different organisms, which affects their ability to survive and reproduce in their natural environments.	**SE/TE:** Inquiry Try It! How do plants change?, 88 Inquiry Explore It! What is inside a seed?, 96 Reproduction, 97 Parts of a Flower, 98 How Seeds Grow, 99 How Cones Help Plants, 100 Do the Math! Elapsed Time, 101 Plant Life Cycles, 103 Life Cycle of a Flowering Plant, 104 Life Cycle of a Conifer Plant, 105 Other Plant Life Cycles, 106 At-Home Lab: Draw a Life Cycle, 106 Chapter 3 Study Guide, 113 Chapter 3 Chapter Review, 115 Chapter 3 Ohio Benchmark Practice, 116 Inquiry Explore It! What is the life cycle of a grain beetle?, 130 Life Cycles, 131 Life Cycle of a Butterfly, 132-133 Life Cycle of a Frog, 134-135 Life Cycle of a Mammal, 136-137 Chapter 4 Study Guide, 143 Chapter 4 Chapter Review, 145 Chapter 4 Ohio Benchmark Practice, 146 **TE Only:** Chapter 3 Test, 115B Chapter 4 Test, 145A-145B **Realize™ Digital Resources:** **Chapter 3: Plants** >Lesson 2: How do plants use flowers or cones to reproduce?>How do plants use flowers or cones to reproduce?;>What is inside a seed?;>Flowering plants and conifer plants;>How do plants use flowers or cones to reproduce? 60 Sec Video >Lesson 3: What are the life cycles of some plants?>Plant Life Cycles 60-Sec Video;>What are some plant life cycles? Graphic Organizer;>What are some plant life cycles >Chapter Labs>Inquiry STEM Activity: Watch It Grow! >Chapter Leveled Readers>Growing and Changing Plants;>A Tree's Life

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Continued: (3.LS.3.a) Worldwide, organisms are growing, reproducing, dying and decaying. The details of the life cycle are different for different organisms, which affects their ability to survive and reproduce in their natural environments.	Continued: **Chapter 4: Living Things**: >Lesson 2: What are the life cycles of some animals?>Animal Life Cycles 60-Sec Video;>What are some animal life cycles> Graphic Organizer;>What are some animal life cycles? Editable Pres;>Animal Life Cycles;>Comparing Life Cycles Savvas Clipped Video for Science **Quests, STEM, and Program Resources** >Program Resources>Social Studies and Language Arts Connections>The Life Cycle of the Platypus
(PS) Physical Science	
Matter and Forms of Energy	
This topic focuses on the relationship between matter and energy. Matter has specific properties and is found in all substances on Earth. Heat is a familiar form of energy that can change the states of matter.	
(3.PS.1.a) Matter takes up space and has mass.	**SE/TE:** **Chapter 6: Matter:** Matter Everywhere, 189 Inquiry Explore It! How can mass and volume be measured?, 198 Measure and Compare Mass, 201 Lightning Lab: Volume and Mass, 201 Do the Math! Problem Solving, 202 Chapter 6 Study Guide, 211 Chapter 6 Chapter Review, 212 **Realize™ Digital Resources:** **Chapter 6: Matter:** >Chapter Leveled Readers>Properties of Matter;>What Are Some Properties of Matter
(3.PS.1.b) Differentiating between mass and weight is not necessary at this grade level.	**SE/TE:** Inquiry Explore It! How can mass and volume be measured?, 198 Measure and Compare Mass, 201 **TE Only:** Lab Support: Science Misconception, 198 Ohio Content Refresher, 200

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(3.PS.2.a) The most recognizable states of matter are solids, liquids and gases.	**SE/TE:** States of Matter, 193 Chapter 6 Study Guide, 211 Chapter 6 Chapter Review, 212 Chapter 6 Ohio Benchmark Practice, 214 **Realize™ Digital Resources:** **Chapter 6: Matter:** >Lesson 2: What are states of matter?>What are states of matter? 60-Sec Video >Chapter Leveled Readers>Properties of Matter;>What Are Some Properties of Matter
(3.PS.2.b) Shape and compressibility are properties that can distinguish between the states of matter.	**SE/TE:** Solids/Liquids/Gases, 195 **Realize™ Digital Resources:** **Chapter 6: Matter:** >Chapter Leveled Readers>Properties of Matter;>What Are Some Properties of Matter
(3.PS.2.c) One way to change matter from one state to another is by heating or cooling.	**SE/TE:** **Chapter 6: Matter:** Inquiry Explore It! What makes water change states?, 192 At-Home Lab: Change of States, 194 Changes in Water, 196-197 Chapter 6 Study Guide, 211 Chapter 6 Chapter Review, 212 Chapter 6 Ohio Benchmark Practice, 214 Let's Read Science! Cause and Effect, 219 Unit D Performance-Based Assessment, 272 **TE Only:** Chapter 6 Test, 213A-213B **Realize™ Digital Resources:** **Chapter 6: Matter:** >Lesson 2: What are states of matter?>What makes water change states? >Chapter Leveled Readers>Properties of Matter;>What Are Some Properties of Matter **Quests, STEM, and Program Resources** >Program Resources>Social Studies and Language Arts Connections>States of Matter and Refrigeration

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(3.PS.3.a) There are many different forms of energy. Energy is the ability to cause motion or create change. The different forms of energy that are outlined at this grade level should be limited to familiar forms that a student is able to observe.	**SE/TE:** Inquiry Try It! How can energy of motion change?, 218 Energy, 221 Energy at Home, 222-223 At-Home Lab: Make Motion, 224 Energy of Motion, 225 Changing Forms of Energy, 227 Thermal Energy and Heat, 241 Heat and Light, 242-243 Sound, 245 Electric Charges, 251 Electric Currents and Circuits, 252 Inquiry Investigate It! How does heat cause motion?, 256-257 Chapter 7 Study Guide, 263 Chapter 7 Chapter Review, 264-265 Chapter 7 Ohio Benchmark Practice, 266 Inquiry Apply It! How does energy affect the distance a toy car travels?, 268-271 **TE Only:** Chapter 7 Test, 265A-265B **Realize™ Digital Resources:** **Chapter 7: Energy and Its Forms:** >Lesson 1: What are some forms of energy?>What are some forms of energy?;>What form of energy is this? 60-Sec Video;>What are some forms of energy? Editable Pres;>What are some forms of energy? Graphic Organizer;>Forms of Energy;>What is sound >Lesson 2: How does energy change form?>How does energy change form?;>How can sound energy change form?;>Changing Forms of Energy;>How does energy change form? 60-Sec Video >Lesson 4: What are heat and light energy?>What are heat and light energy?;>What are heat and light energy? 60–Sec Video;>Heat and Light Energy >Lesson 5: What is sound energy?>What is sound energy? Editable Pres;>What is sound energy? Graphic Organizer;>

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Continued: (3.PS.3.a) There are many different forms of energy. Energy is the ability to cause motion or create change. The different forms of energy that are outlined at this grade level should be limited to familiar forms that a student is able to observe.	Continued: >Lesson 6: What is electrical energy?>What is electrical energy?;>What is electrical energy? 60-Sec Video;>Electrical Energy >Chapter Labs>How does heat cause motion? Directed Inquiry, Guided Inquiry;>How could you further explore different types of energy? Open Inquiry >Chapter Leveled Readers>Forms of Energy