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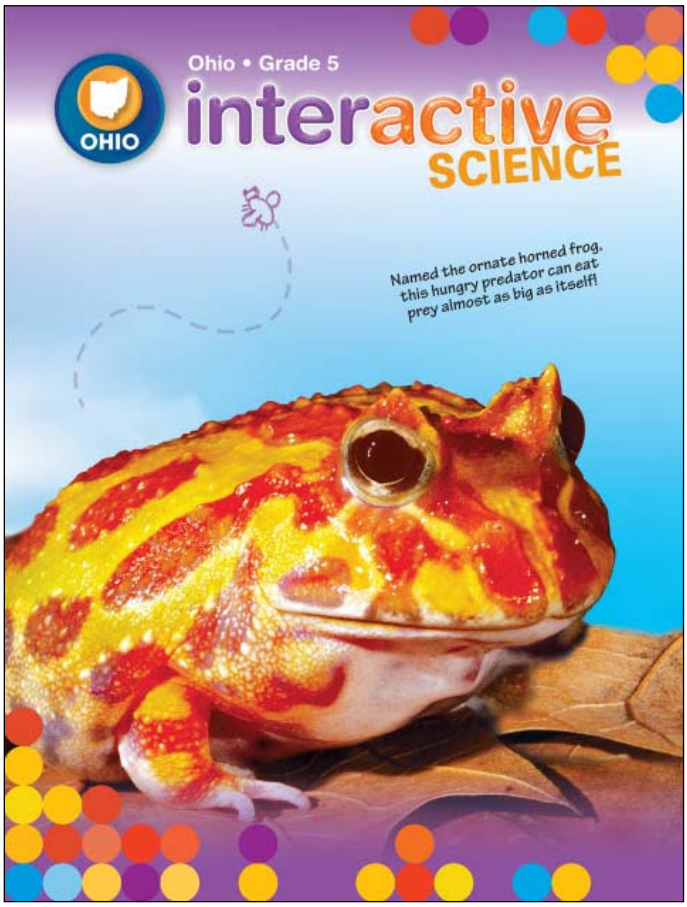

To the

Ohio 2018 Learning Standards for Science Grade 5

Prepared by Savvas Learning Company, formerly Pearson K12 Learning

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To the
Ohio 2018 Learning Standards for Science, Grade 5

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**

Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

Ohio 2018 Learning Standards for Science Grade 5	Ohio Interactive Science 2017 Grade 5
(ESS) Earth and Space Science	
Cycles and Patterns in the Solar System	
This topic focuses on the characteristics, cycles and patterns in the solar system and within the universe.	
(5.ESS.1.a) The distance from the sun, size, composition and movement of each planet are unique. Planets revolve around the sun in elliptical orbits. Some of the planets have moons and/or debris that orbit them. Comets, asteroids and meteoroids orbit the sun.	**SE/TE:** Let's Read Science! Compare and Contrast, 139 Inquiry Explore It! How does distance affect orbiting time?, 152 Planets, 153 Orbiting Objects, 154 Mercury, 155 Venus, 156 Earth and the Moon, 157 Mars, 158-159 Lightning Lab: Model Lab, 158 Inquiry Explore It! How are the sizes of the inner and outer planets different?, 160 Gas Giants, 161 Jupiter, 162 Saturn, 163 Uranus/Neptune, 164 Dwarf Planets, 170 Moons, 171 Chapter 4 Study Guide, 179 Chapter 4 Chapter Review, 181 Chapter 4 Ohio Benchmark Practice, 182 Unit C Performance-Based Assessment, 188 **TE Only:** Chapter 4 Test, 181A-181B **Realize™ Digital Resources:** **Chapter 4: Earth and Space:** >Lesson 3: What are the inner planets?>What are the inner planets?;>How does distance affect orbiting time?;>If Earth Was a Radish Savvas Flipped Video for Science;>The Inner Planets;>What are the inner planets? 60-Sec Video >Lesson 4: What are the outer planets?>What is the shape of a planet's path?;>What are the outer planets?;>Inner and Outer Planets Sizes;>The Outer Planets;>What are the outer planets? 60-Sec Video >Chapter Leveled Readers>The Solar System;>Earth's Place in Space;>Mars: The Red Planet **Quests, STEM, and Program Resources** >Program Resources>Social Studies and Language Arts Connections>Galileo Supports Copernicus

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(5.ESS.2.a) The sun appears to be the largest star in the sky because it is the closest star to Earth. Some stars are larger than the sun and some stars are smaller than the sun.	**SE/TE:** Stars, 147 Constellations, 150 Chapter 4 Study Guide, 179 **Realize™ Digital Resources:** **Chapter 4: Earth and Space:** >Lesson 2: What is a star?>What is a star? 60-Sec Video >Chapter Leveled Readers>The Solar System;>Earth's Place in Space
(5.ESS.3.a) Earth's revolution around the sun takes approximately 365 days. Earth completes one rotation on its axis in a 24-hour period, producing day and night. This rotation makes the sun, stars and moon appear to change position in the sky.	**SE/TE:** Earth and Sun, 141 Earth's Rotation, 142 Earth's Revolution, 143 Lightning Lab: Day and Night, 143 Lightning Lab: Measuring Shadows, 148 Stars on the Move, 151 Science in Your Backyard: Planet Hunting, 174 Chapter 4 Study Guide, 179 Chapter 4 Chapter Review, 180 Chapter 4 Ohio Benchmark Practice, 182 **TE Only:** Chapter 4 Test, 181A-181B **Realize™ Digital Resources:** **Chapter 4: Earth and Space:** >Lesson 1: How does Earth move?>How can shadows change over time?;>How does Earth move?;>How does Earth move? Editable Pres;>Earth's Motion Virtual Lab;>How Earth Moves;>Earth Rotates and Revolves Savvas Flipped Video for Science;>Earth's Movement;>How does Earth move? Graphic Organizer **Quests, STEM, and Program Resources** >Quest>Earth's Rotation: Day and Night Quest Check;>Moon Phases Quest Check;>Shadows and the Sun Quest Check >Program Resources>Social Studies and Language Arts Connections>Galileo Supports Copernicus

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Ohio 2018 Learning Standards for Science Grade 5	Ohio Interactive Science 2017 Grade 5
(LS) Life Science	
Interconnections within Ecosystems	
This topic focuses on foundational knowledge of the structures and functions of ecosystems.	
(5.LS.1.a) Populations of organisms can be categorized by how they acquire energy.	**SE/TE:** Types of Ecosystems, 92-93 Balance in Ecosystems, 96 Interactions in Ecosystems, 99 Energy Roles in Ecosystems, 100-101 Roles in Ecosystems, 104 Chapter 3 Study Guide, 125 Chapter 3 Chapter Review, 127 Chapter 3 Ohio Benchmark Practice, 128 **TE Only:** Chapter 3 Test, 127A-127B **Realize™ Digital Resources:** **Chapter 3: Ecosystems:** >Lesson 2: How do organisms interact in ecosystems?>Organisms Interact in Ecosystems 60-Sec Video;> Explore Organism Interactions Virtual Lab;>How Organisms Interact in Ecosystems Editable Pres;>How Organisms Interact in Ecosystems Graphic Organizer;> Food Energy Starts With the Sun Savvas Flipped Video for Science **Quests, STEM, and Program Resources** >Program Resources>Social Studies and Language Arts Connections>Write a Description
(5.LS.1.b) Food webs can be used to identify the relationships among producers, consumers and decomposers in an ecosystem.	**SE/TE:** Inquiry Explore It! What do some molds need to grow?, 98 Food Chains, 102 Food Webs, 103 Chapter 3 Study Guide, 125 Chapter 3 Chapter Review, 127 Chapter 3 Ohio Benchmark Practice, 128 **TE Only:** Chapter 3 Test, 127A **Realize™ Digital Resources:** **Chapter 3: Ecosystems:** >Lesson 2: How do organisms interact in ecosystems?>How do organisms interact in ecosystems?;>What do some molds need to grow?;> Organisms Interact in Ecosystems 60-Sec Video;> How Organisms Interact in Ecosystems Editable Pres;>Food Chains;> Food Energy Starts With the Sun Savvas Flipped Video for Science

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Ohio 2018 Learning Standards for Science Grade 5	Ohio Interactive Science 2017 Grade 5
(5.LS.2.a) For ecosystems, the major source of energy is sunlight. Energy entering ecosystems as sunlight is transferred and transformed by producers into energy that organisms use through the process of photosynthesis. That energy is used or stored by the producer and can be passed from organism to organism as illustrated in food webs.	**SE/TE:** Interactions in Ecosystems, 99 Energy Roles in Ecosystems, 100-101 Food Chains, 102 Food Webs, 103 Roles in Ecosystems, 104 Chapter 3 Study Guide, 125 Chapter 3 Chapter Review, 127 Chapter 3 Ohio Benchmark Practice, 128 **TE Only:** Chapter 3 Test, 127B **Realize™ Digital Resources:** **Chapter 3: Ecosystems:** >Lesson 2: How do organisms interact in ecosystems?>Organisms Interact in Ecosystems 60-Sec Video;>Explore Organism Interactions Virtual Lab;> How Organisms Interact in Ecosystems Editable Pres;>How Organisms Interact in Ecosystems Graphic Organizer;>Food Energy Starts With the Sun Savvas Flipped Video for Science **Quests, STEM, and Program Resources** >Program Resources>Social Studies and Language Arts Connections>Bison Restoration
(PS) Physical Science	
Light, Sound and Motion	
This topic focuses on the forces that affect motion. This includes the relationship between the change in speed of an object, the amount of force applied and the mass of the object. Light and sound are explored as forms of energy that move in predictable ways, depending on the matter through which they move.	
(5.PS.1.a) Movement can be measured by speed. The speed of an object is calculated by determining the distance (d) traveled in a period of time (t).	**SE/TE:** Changes in Motion, 201 Do the Math! Using Formulas, 206 **Realize™ Digital Resources:** **Chapter 5: Forces and Motion:** >Chapter Leveled Readers>Forces and Motion;>How Do Objects Move?

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Ohio 2018 Learning Standards for Science Grade 5	Ohio Interactive Science 2017 Grade 5
(5.PS.1.b) Any change in speed or direction of an object requires a force and is affected by the mass of the object and the amount of force applied.	**SE/TE:** Inquiry Try It! How can you make a paper helicopter drop slowly?, 192 Forces, 195 Contact Forces, 196-197 Non-Contact Forces, 198-199 Inquiry Explore It! How can forces affect motion?, 200 Changes in Motion, 201 Newton's First Law, 202-203 Newton's Second Law, 204-205 Do the Math! Using Formulas, 206 Chapter 5 Study Guide, 215 Chapter 5 Chapter Review, 216-217 Chapter 5 Ohio Benchmark Practice, 218 Inquiry Apply It! How is motion affected by Mass?, 256 **TE Only:** Chapter 5 Test, 217A-217B **Realize™ Digital Resources:** **Chapter 5: Forces and Motion:** >Lesson 1: What are forces?>What are forces?;>Forces and Non-=Contact Forces;>What are forces? Editable Pres;>What are forces? Graphic Organizer;>Design an Exper5iment on Force Savvas Slipped Video for Science >Lesson 2: What are Newton's Laws?>What are Newton's Laws?;>How can forces affect motion?;>What are Newton's Laws? Editable Pres;>What are Newton's Laws? Graphic Organizer;>A Force and Motion Adventure Virtual Lab >Chapter Leveled Readers>Forces and Motion;>How Do Objects Move? **Quests, STEM, and Program Resources** >Program Resources>Social Studies and Language Arts Connections>Sir Isaac Newton

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(5.PS.2.a) Light travels and maintains its direction until it interacts with an object or moves from one medium to another and then it can be reflected, refracted or absorbed.	**SE/TE:** Light, 239 Light Waves and Color, 240 Light Changes Direction, 242-243 Chapter 6 Study Guide, 251 Chapter 6 Chapter Review, 253 Chapter 6 Ohio Benchmark Practice, 254 **TE Only:** Chapter 6 Test, 253A **Realize™ Digital Resources:** **Chapter 6: Changing Forms of Energy:** >Lesson 3: What is light energy?>What is light energy? Got it? 60-Sec Video >Chapter Leveled Readers>Energy;>How does energy change?
(5.PS.2.b) Sound is produced by vibrating objects and requires a medium through which to travel. The rate of vibration is related to the pitch of the sound.	**SE/TE:** Inquiry Explore It! What can affect the sound made by a rubber band? 232 Sound, 233 How Sound Behaves, 234-235 Sound and Energy Transfer, 236-237 Chapter 6 Study Guide, 251 Chapter 6 Chapter Review, 252 Chapter 6 Ohio Benchmark Practice, 254 **TE Only:** Chapter 6 Test, 253A **Realize™ Digital Resources:** **Chapter 6: Changing Forms of Energy:** >Lesson 2: What is sound energy?>What is sound energy?;> >Chapter Leveled Readers>Energy;>How does energy change?