

Readorium Alignment with Indiana State Standards: Grade 3

Readorium Content: In Readorium, students choose **science books** that interest them or teachers may lock or unlock specific books for classes, groups, or individuals. All students can understand the same rich content because the readability levels of the chapters and the supports students receive automatically adjust to their individual needs as they read. Once students receive tokens for completing books, they may select magazine articles or National Science Foundation videos. They may also participate in game-like activities based on the concepts and vocabulary they just learned. Teachers can log into the **Teacher Resource Center** to view student data and download resources and lessons based on this data. The following chart shows the content available for students by Indiana State Science Standards. Some content applies to more than one standard.

Readorium Alignment with Indiana State Science Standards: Grade 3		
Physical Science		
Readorium Books By Standard	Magazine Articles (A) and Science Videos (V) By Standard	Teacher Resource Center Classroom Strategy Lessons (CL) with Articles (A) by Standard
3. PS.1 Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object.		
<ul style="list-style-type: none"> • Amusement Park Physics • Olympic Champs: It's Not Just Luck – It's Physics! • Unbalanced Forces 	<ul style="list-style-type: none"> • Moving Hovercrafts 	<ul style="list-style-type: none"> •
3. PS.2 Identify types of simple machines and their uses. Investigate and build simple machines to understand how they are used.		
<ul style="list-style-type: none"> • Amusement Park Physics • Olympic Champs: It's Not Just Luck-It's Physics 	<ul style="list-style-type: none"> • Weapons Older than Dirt: The History of Some of the World's Most Ancient Weapons 	<ul style="list-style-type: none"> • Graphic Features (CL-2, A-1 Machines of War: the Science of Siege Engines)
3. PS.3 Generate sound energy using a variety of materials and techniques, and recognize that it passes through solids, liquids, and gases (i.e. air).		
<ul style="list-style-type: none"> • Science of Music • Good Vibes • Improving Lives with Assistive Technology 	<ul style="list-style-type: none"> • Computer's Best Friend • Cool Beams! • The Science of Movie Stunts 	<ul style="list-style-type: none"> • Text Organization (CL-1, A-1 What is a Satellite?) • Text Organization (CL-1, A-2 Satellites in Outer Space) • Text Organization (CL-1, A-3 How Satellites Work)
3. PS.4 Investigate and recognize properties of sound that include pitch, loudness (amplitude), and vibration as determined by the physical properties of the object making the sound.		
<ul style="list-style-type: none"> • The Science of Music • Good Vibes • Improving Lives with Assistive Technology 	<ul style="list-style-type: none"> • Computer's Best Friend 	<ul style="list-style-type: none"> •

Readorium Alignment Indiana State Standards: Grade 3

Life Science

Readorium Books By Standard	Magazine Articles (A) and Science Videos (V) By Standard	Teacher Resource Center Classroom Strategy Lessons (CL) with Articles (A) by Standard
3. LS.1 Analyze evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.		
<ul style="list-style-type: none"> • Inheritance, It's All in the Genes Genes 	<ul style="list-style-type: none"> • Crime Scene Science (A) • Hair Time (A) • Biotechnology (A) 	<ul style="list-style-type: none"> • Main Idea/Details (CL-4, A-3 Why Does Hair Turns Grey?)
3. LS.2 Plan and conduct an investigation to determine the basic needs of plants to grow, develop, and reproduce.		
<ul style="list-style-type: none"> • The Weird and Wonderful World of Plants 	<ul style="list-style-type: none"> • How Plants Survive: Part 1 (A) • How Plants Survive: Part 2 (A) 	
3. LS.3 Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.		
<ul style="list-style-type: none"> • Beetlemania • Birds of a Feather • Buzzing About Bees and Wasps • Deep Sea Creatures • Exploring the Ocean's Depths • The Weird and Wonderful World of Plants 	<ul style="list-style-type: none"> • Hair Time! (A) • The Brain! (A) • Mysteries of the Common Cold (A) • Breathe Easier - Understanding Asthma (A) 	<ul style="list-style-type: none"> • Author's Purpose (CL-2, A-1 The Venomous Sea Wasp) • Main Idea & Details (CL-1, A-1 Mantled Howler Monkeys) • Questioning (CL1, A2 Agoutis)
3. LS.4 Construct an argument that some animals form groups that help members survive.		
<ul style="list-style-type: none"> • Buzzing About Bees and Wasps • The Secret Languages of Animals 	<ul style="list-style-type: none"> • Animal Antics (V) 	<ul style="list-style-type: none"> • Main Idea & Details (CL-1, A-1 Mantled Howler Monkeys) • Questioning (CL1 ,A1 White-Throated Capuchins)

Readorium Alignment with Indiana State Science Standards: Grade 3

Earth and Space Science

Readorium Books By Standard	Magazine Articles (A) and Science Videos (V) By Standard	Teacher Resource Center Classroom Strategy Lessons (CL) with Articles (A) by Standard
1st Earth and Space Science Standard 3.ESS.1 Obtain and combine information to determine seasonal weather patterns across the different regions of the United States.		
<ul style="list-style-type: none"> Weather Around the World Formation of Mountains and Deserts Desert Biomes Earth in Motion Life in the Tundra Rainforests 	<ul style="list-style-type: none"> Global Temperatures Chilling Facts about a Burning Issue: Climate Change Quiz-Pt. 1 Chilling Facts about a Burning Issue: Climate Change Quiz-Pt. 2 It's Too Hot! 	<ul style="list-style-type: none"> Author's Purpose (CL-1, A-2 Weather Folklore from Africa and Asia) Print Features (CL-3, A-2 Flying Into a Hurricane)
3.ESS.2 Develop solutions that could be implemented to reduce the impact of weather related hazards.		
<ul style="list-style-type: none"> Natural Hazards Pollution Prairie Ecosystems Rainforests Scientific Method 	<ul style="list-style-type: none"> Bones Tell the Story Greenhouse Gases Global Temperature Let's Save Our Planet 	<ul style="list-style-type: none"> Author's Purpose (CL-1, A-1 Be a Weather Scientist) Author's Purpose (CL-1, A-3 Tornado)
3.ESS.3 Observe the detailed characteristics of rocks and minerals. Identify and classify rocks as being composed of different combinations of minerals		
<ul style="list-style-type: none"> Big Delicious Earth Caves Continental Drift 	<ul style="list-style-type: none"> Rocks Rock (A) 	<ul style="list-style-type: none"> Determining Importance (CL-3, A-2 Crystals)
3.ESS.4 Determine how fossils are formed, discovered, layered over time, and used to provide evidence of the organisms and the environments in which they lived long ago.		
<ul style="list-style-type: none"> Continental Drift Earthquakes Form Mountains Plate Tectonics Sea Floor Spreading 	<ul style="list-style-type: none"> Herbivorous Dinosaurs (A) Getting DNA Out of Ancient Fossils 	<ul style="list-style-type: none">

Readorium Alignment with Indiana State Standards: Grade 3

Engineering, Technology and Application of Science (ETAS)

Readorium Books By Standard	Magazine Articles (A) and Science Videos (V) By Standard	Teacher Resource Center Classroom Strategy Lessons (CL) with Articles (A) by Standard
3-5.E.1 Identify a simple problem with the design of an object that reflects a need or a want. Include criteria for success and constraints on materials, time, or cost.		
<ul style="list-style-type: none"> • Computer Revolution, The • Deep Space • Earth’s Systems • Exploring the Ocean's Depths • Improving Lives with Assistive Technology • Living in Space • Making Movie Magic • Olympic Champs: It's Not Just Luck – It's Physics! • On the Move with Transportation Technology • Powering Our Lives with Energy • Technology Changes Medicine 	<ul style="list-style-type: none"> • Look, a Rainbow (A) • Amazing Teen Scientist (A) • A Computer's Best Friend (A) • The Science of Movie Stunts (A) • Cool Beams! (A) • Excuse Me, But Burping is Natural (A) • Hair Time! (A) 	<ul style="list-style-type: none"> •
3-5.E.2 Construct and compare multiple plausible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem		
<ul style="list-style-type: none"> • Improving Lives with Assistive Technology • Living in Space • Olympic Champs: It's Not Just Luck – It's Physics! • On the Move with Transportation Technology • Powering Our Lives with Energy • Science - What's it All About? • Solving Crime with Forensics • Technology Changes Medicine 	<ul style="list-style-type: none"> • Amazing Teen Scientist (A) • A Computer's Best Friend (A) • Why Are Some Hands More "Handy" Than Others?(A) • Mysteries of the Common Cold(A) • Breathe Easier - Understanding Asthma(A) 	<ul style="list-style-type: none"> •
3-5.E.3 Construct and perform fair investigations in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.		
<ul style="list-style-type: none"> • Science - What's It All About? 	<ul style="list-style-type: none"> • Amazing Teen Scientist (A) • A Computer's Best Friend (A) • Why Are Some Hands More "Handy" Than Others?(A) • Mysteries of the Common Cold(A) • Breathe Easier - Understanding Asthma(A) 	<ul style="list-style-type: none"> •

Readorium Alignment with Indiana State Standards: Grade 4

Readorium Content: In Readorium, students choose **science books** that interest them or teachers may lock or unlock specific books for classes, groups, or individuals. All students can understand the same rich content because the readability levels of the chapters and the supports students receive automatically adjust to their individual needs as they read. Once students receive tokens for completing books, they may select magazine articles or National Science Foundation videos. They may also participate in game-like activities based on the concepts and vocabulary they just learned. Teachers can log into the **Teacher Resource Center** to view student data and download resources and lessons based on this data. The following chart shows the content available for students by Indiana State Science Standards. Some content applies to more than one standard.

Readorium Alignment with Indiana State Science Standards: Grade 4		
Physical Science		
Readorium Books By Standard	Magazine Articles (A) and Science Videos (V) By Standard	Teacher Resource Center Classroom Strategy Lessons (CL) with Articles (A) by Standard
4. PS.1 Investigate transportation systems and devices that operate on or in land, water, air and space and recognize the forces (lift, drag, friction, thrust and gravity) that affect their motion.		
<ul style="list-style-type: none"> • On The Move with Transportation Technology 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • •
4.PS.2 Investigate the relationship of the speed of an object to the energy of that object		
<ul style="list-style-type: none"> • Amusement Park Physics • Olympic Champs: It's Not Just Luck – It's Physics! 	<ul style="list-style-type: none"> • Excuse Me, But Burping is Natural (A) 	<ul style="list-style-type: none"> • Graphic Features (CL-2, A-1 Machines of War: the Science of Siege Engines)
4.PS.3 Investigate how multiple simple machines work together to perform everyday tasks.		
<ul style="list-style-type: none"> • Making Movie Magic 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> •
4. PS.4 Describe and investigate the different ways in which energy can be generated and/or converted from one form of energy to another form of energy.		
<ul style="list-style-type: none"> • Good Vibes – Making Waves with Sound 	<ul style="list-style-type: none"> • Excuse Me, But Burping is Natural (A) 	<ul style="list-style-type: none"> •
4.PS.5 Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.		
<ul style="list-style-type: none"> • Good Vibes – Making Waves with Sound • Improving Lives with Assistive Technology • Making Movie Magic • On the Move with Transportation Technology • Powering Our Lives with Energy • Science of Music 	<ul style="list-style-type: none"> • Cool Beams! (A) • Robotic Arms (V) • The SpelBots (V) • Computer's Best Friend (A) • The Science of Movie Stunts (A) • The Water Cycle (A) • Why Are Some Hands More "Handy" Than Others? (A) • Aurora Borealis: The Glowing Lights (A) 	<ul style="list-style-type: none"> • Inferring and Predicting (CL 1, A3 Why is the Sky Blue?)

Readorium Alignment with Indiana State Science Standards:: Grade 4

Life Science

Readorium Books By Standard	Magazine Articles (A) and Science Videos (V) By Standard	Teacher Resource Center Classroom Strategy Lessons (CL) with Articles (A) by Standard
<p>4. LS.1 Observe, analyze, and interpret how offspring are very much, but not exactly, like their parents or one another. Describe how these differences in physical characteristics among individuals in a population may be advantageous for survival and reproduction.</p>		
<ul style="list-style-type: none"> Inheritance, It's All in the Genes 	<ul style="list-style-type: none"> Crime Scene Science (A) Hair Time! (A) 	<ul style="list-style-type: none">
<p>4. LS.2 Use evidence to support the explanation that a change in the environment may result in a plant or animal will survive and reproduce, move to a new location, or die.</p>		
<ul style="list-style-type: none"> Invasive Species Life and Death in the Wild Our Gross World Spider Stories The Weird and Wonderful World of Plants Deep Sea Creatures 	<ul style="list-style-type: none"> Monkey Business Orangutan Copycats Evolution of the Pepered Moth Beluga Whales Polar Bears Walruses Babies and Learning Antlers, Shells, and Beaks How Spiders Catch Prey Weird Animal Defense Mechanisms Make Way for Ducklings Antarctic Krill Sea Turtles 	<ul style="list-style-type: none"> Click or Clunk: Metacognition (CL 1, A1 Why Save Rainforests?) Inferring and Predicting (CL 2, A1 Invasive Species) Main Idea/Details (CL-3, A-1 How Much Water Does a Camel's Hump Hold?) Questions (CL-1, A-3 Sloths) Word Learning (CL-2, A-3 Webbed Wonders)
<p>4. LS.3 Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction in a different ecosystems.</p>		
<ul style="list-style-type: none"> Beetlemania Birds of a Feather Buzzing About Bees and Wasps Deep Sea Creatures Invasive Species Exploring Ecosystems How We Learn Life and Death in the Wild Our Gross World The Secret Languages of Animals Smarter than you think Spider Stories Weird and Wonderful Plants 	<ul style="list-style-type: none"> Amazing Water Bear (A) Bee Bee-havior (A) Beneath the Fin (A) Carnivorous Dinosaurs (A) Cicada Swarm (A) Friendship of a Goby and a Shrimp (A) Hair Time! (A) How Spiders Catch Prey (A) Science of Jelly Beans (A) Venus Flytrap: A Meat-Eating Plant (A) Walruses (V) Wonder Fabrics - Things that Can't get Wet!(A) Why Dandelions Are Dandy (A) Batty for Bats (V) Emperor Penguins (V) Sea Turtles (V) Bird Brains (V) Antlers, Shells, & Beaks (V) Leaf Cutter Ants (V) 	<ul style="list-style-type: none"> Questioning (CL-1, A-2 Agoutis) Questioning (CL-1, A-3 Sloths) Word Learning (CL-2, A-1 What Makes a Bird a Bird) Word Learning (CL-2, A-2 What is a Waterfowl?) Word Learning (CL-2, A-3 Webbed Wonders) Text Organization (CL-2, A-1 Inside Your Body) Text Organization (CL-2, A-2 Disease Database) Text Organization (CL-2, A-3 All About Asthma)

	<ul style="list-style-type: none">• Social Insects (V)• Picking Your Brain (V)• How Do We Think?(V)• Just by a Whisker (V)• Antarctic Krill (V)• Polar Bears (V)• Walruses (V)	
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Readorium Alignment with Indiana State Science Standards:: Grade 4

Earth and Space Science

Readorium Books By Standard	Magazine Articles (A) and Science Videos (V) By Standard	Teacher Resource Center Classroom Strategy Lessons (CL) with Articles (A) by Standard
<p>4.ESS.1 Investigate how the moon appears to move through the sky and it changes day to day, emphasizing the importance of how the moon impacts the Earth, the rising and setting times, and solar and lunar eclipses.</p>		
	<ul style="list-style-type: none"> • The Biggest Shadow of All: A Solar Eclipse (A) • Our Own Star, the Sun (A) • Strange Stars (A) • The Surface and Eclipses of the Moon (A) 	<ul style="list-style-type: none"> • Inferring and Predicting (CL 1, A1 What Causes Seasons?) • Inferring and Predicting (CL 1, A2 What is a Planet?)
<p>4. ESS.2 Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.</p>		
<ul style="list-style-type: none"> • Earth's Systems • Exploring the Ocean's Depths • Our Planet Earth • Polluting Our Earth • Powering Our Lives with Energy 	<ul style="list-style-type: none"> • The Water Cycle (A) • All about Recycling (A) • Biotechnology (A) • The Science of Movie Stunts (A) • A Sweet Treat (A) 	
<p>4. ESS.3 Describe how geological forces change the shape of the land suddenly and over time.</p>		
<ul style="list-style-type: none"> • Changing Face of Earth, The • Earth's Systems 	<ul style="list-style-type: none"> • Rocks Rock (A) • A River of Ice (A) 	<ul style="list-style-type: none"> •
<p>4. ESS.4 Develop solutions that could be implemented to reduce the impact of humans on the natural environment and the natural environment on humans.</p>		
<ul style="list-style-type: none"> • Buzzing About Bees and Wasps • Changing Face of Earth, The • Invasive Species • Natural Hazards that Shape the Earth • Our Planet Earth • Polluting Our Earth 	<ul style="list-style-type: none"> • All About Recycling (A) • A Computer's Best Friend (A) • Earthquakes (V) • Robotic Arms (V) • Debris Filling the Ocean(V) 	<ul style="list-style-type: none"> • Click or Clunk: Metacognition (CL2,A2 Garbage Island) • Click or Clunk: Metacognition (CL2, A1 Illegal Wildlife Trade) • Click or Clunk (CL-1, A-1 Why Save Rainforests?)

Readorium Alignment with Indiana State Science Standards: Grade 4

Engineering, Technology and Application of Science (ETAS)

Readorium Books By Standard	Magazine Articles (A) and Science Videos (V) By Standard	Teacher Resource Center Classroom Strategy Lessons (CL) with Articles (A) by Standard
<p>3-5.E.1 Identify a simple problem with the design of an object that reflects a need or a want. Include criteria for success and constraints on materials, time, or cost.</p>		
<ul style="list-style-type: none"> • Computer Revolution • Deep Space • Earth’s Systems • Exploring the Ocean's Depths • Improving Lives with Assistive Technology • Living in Space • Making Movie Magic • Olympic Champs: It's Not Just Luck – It's Physics! • On the Move with Transportation Technology • Powering Our Lives with Energy • Technology Changes Medicine 	<ul style="list-style-type: none"> • Look, a Rainbow (A) • Amazing Teen Scientist (A) • A Computer's Best Friend (A) • The Science of Movie Stunts (A) • Cool Beams! (A) • Excuse Me, But Burping is Natural (A) • Hair Time! (A) 	<ul style="list-style-type: none"> • Word Learning (CL-1, A-1 Introduction to Archeology) • Word Learning (CL-1, A-2 How Archeologists Work) • Word Learning (CL-1, A-3 The Archeology Lab)
<p>3-5.E.2 Construct and compare multiple plausible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem</p>		
<ul style="list-style-type: none"> • Improving Lives with Assistive Technology • Living in Space • Olympic Champs: It's Not Just Luck – It's Physics! • On the Move with Transportation Technology • Powering Our Lives with Energy • Science - What's it All About? • Solving Crime with Forensics • Technology Changes Medicine 	<ul style="list-style-type: none"> • Amazing Teen Scientist (A) • A Computer's Best Friend (A) • Why Are Some Hands More "Handy" Than Others? (A) • Mysteries of the Common Cold (A) • Breathe Easier - Understanding Asthma (A) • All About Recycling(A) • Shrimp Farming-A Shocking Environmental Tale (A) 	<ul style="list-style-type: none"> • Graphic Features (CL-2, A-1 War Machines-Siege Engines)
<p>3-5.E.3 Construct and perform fair investigations in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.</p>		
<ul style="list-style-type: none"> • Science - What's It All About? 	<ul style="list-style-type: none"> • Biotechnology (A) • Cancer: Cells Out of Control • Twin Fascination(A) • Virtual Reality Scientists (V) • RoboBees (V) • Robotic Arms (V) • The SpelBots (V) 	<ul style="list-style-type: none"> •

Readorium Alignment with Indiana State Standards: Grade 5

Readorium Content: In Readorium, students choose **science books** that interest them or teachers may lock or unlock specific books for classes, groups, or individuals. All students can understand the same rich content because the readability levels of the chapters and the supports students receive automatically adjust to their individual needs as they read. Once students receive tokens for completing books, they may select magazine articles or National Science Foundation videos. They may also participate in game-like activities based on the concepts and vocabulary they just learned. Teachers can log into the **Teacher Resource Center** to view student data and download resources and lessons based on this data. The following chart shows the content available for students by Indiana State Science Standards. Some content applies to more than one standard.

Readorium Alignment with Indiana State Science Standards: Grade 5		
Physical Science		
Readorium Books By Standard	Magazine Articles (A) and Science Videos (V) By Standard	Teacher Resource Center Classroom Strategy Lessons (CL) with Articles (A) by Standard
1st Physical Science Standard		
5. PS.1 Describe and measure the volume and mass of a sample of a given material.		
<ul style="list-style-type: none"> • Kitchen Chemistry 		
2nd Physical Science Standard		
5. PS.2 Demonstrate that regardless of how parts of an object are assembled the mass of the whole object is identical to the sum of the mass of the parts; however, the volume can differ from the sum of the volumes. (Law of Conservation of Mass).		
3rd Physical Science Standard		
5. PS.3 Determine if matter has been added or lost by comparing mass when melting, freezing, or dissolving a sample of a substance. (Law of Conservation of Mass)		
	<ul style="list-style-type: none"> • Make Your Own Rock Candy (A) • Matter Matters! (A) • All About Recycling (A) • Rocks Rock!(A) 	<ul style="list-style-type: none"> • Inferring and Predicting (CL2, A2 Cafeteria Chemistry: How to Play with Your Food and Amaze Your Friends)
4th Physical Science Standard		
5. PS.4 Describe the difference between weight being dependent on gravity and mass comprised of the amount of matter in a given substance or material.		

Readorium Alignment with Indiana State Science Standards: Grade 5

Life Science

Readorium Books By Standard	Magazine Articles (A) and Science Videos (V) By Standard	Teacher Resource Center Classroom Strategy Lessons (CL) with Articles (A) by Standard
<p>1st Life Science Standard 5.LS.1 Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.</p>		
<ul style="list-style-type: none"> • Beetlemania • Birds of a Feather • Buzzing About Bees and Wasps • Dependency of Life, The • Deep Sea Creatures • Exploring Ecosystems • Exploring the Ocean's Depths • Life and Death in the Wild • Our Gross World • Weird and Wonderful Plants 	<ul style="list-style-type: none"> • Fireflies of the Ocean(A) • Splash (A) • Leaf Cutter Ants (V) • Invasion of the Earthworms! (V) • Virtual Reality Scientists (V) • Core on the Floor(V) • Just by a Whisker (V) 	<ul style="list-style-type: none"> • Questioning (CL-1, A-2 Agoutis) • Questioning (CL-2, A2 Vampires in Nature) • Questioning (CL-2, A3 Parasites: Nature's
<p>2nd Life Science Standard 5.LS.2 Observe and classify common Indiana organisms as producers, consumers, decomposers, or predator and prey based on their relationships and interactions with other organisms in their ecosystem.</p>		
<ul style="list-style-type: none"> • Beetlemania • Birds of a Feather • Buzzing About Bees and Wasps • Dependency of Life, The • Deep Sea Creatures • Exploring Ecosystems • Exploring the Ocean's Depths • Life and Death in the Wild • Our Gross World • Weird and Wonderful Plants 	<ul style="list-style-type: none"> • Splash (A) 	<ul style="list-style-type: none"> • • Click or Clunk: Metacognition (CL2, A3 The Venomous Sea Wasp) • Questioning (CL1 ,A1 White-Throated Capuchins) • Questioning (CL1 ,A1 Sloths)
<p>3rd Life Science Standard 5.LS.3 Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.</p>		
<ul style="list-style-type: none"> • Birds of a Feather • Buzzing About Bees and Wasps • How We Learn • Improving Lives with Assistive Technology • Making Movie Magic • Secret Languages of Animals • Smarter Than You Think • Weird and Wonderful Plants 	<ul style="list-style-type: none"> • Beneath the Fin (A) • Brain (The)! (A) • Fireflies of the Ocean (A) • How Do We Think? (A) • Interesting and Funny Animal Relationships (A) • Raise Your Voice (A) • Invasion of Earthworms! (V) • Sweet Treat (A) • Twin Fascination (A) • Tigers and Lions! (A) • Why Are Some Hands More "Handy" Than Others? (A) • Venus Flytrap: A Meat-Eating Plant (The) (A) • Babies and Learning (V) • Picking Your Brain (V) • Leaf Cutter Ants (V) • Sea Turtles (V) 	<ul style="list-style-type: none"> • Graphic Features (CL2, A2 Your Brain at Sleep) • Main Idea and Details (CL-4, A-1, Does Your Heart Stop When You Sneeze?) • Main Idea and Details (CL-4, A-2, Why Do We Yawn?)

	<ul style="list-style-type: none">• Social Insects (V)• Batty for Bats (V)• Beluga Whales (V)• Bird Brains (V)• Robo Bees (V)• The SpelBots (V)	
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Readorium Alignment with Indiana State Science Standards: Grade 5

Earth and Space Science

Readorium Books By Standard	Magazine Articles (A) and Science Videos (V) By Standard	Teacher Resource Center Classroom Strategy Lessons (CL) with Articles (A) by Standard
<p>1st Earth and Space Science Standard 5. ESS.1 Analyze the scale of our solar system and its components: our solar system includes the sun, moon, seven other planets and their moons, and many other objects like asteroids and comets.</p>		
<ul style="list-style-type: none"> • Deep Space 	<ul style="list-style-type: none"> • A Trip to Mars (A) • Spirit & Opportunity on Mars (A) • Aurora Borealis: The Glowing Lights (A) • Catching a Comet (A) • The Biggest Shadow of All: A Solar Eclipse (A) • Our Own Star, the Sun • Strange Stars (A) • Where Did the Planets Come From?(A) • Treasures in the Sky(A) • Our Galactic Neighborhood(A) • The Future of the Sun(A) • The Challenge of Gravity(A) • Voyager Space Probes(A) • Black Holes (V) 	
<p>2nd Earth and Space Science Standard 5.ESS.2 Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.</p>		
<ul style="list-style-type: none"> • There are no Readorium books on this topic. 	<ul style="list-style-type: none"> • Look, a Rainbow (A) 	<ul style="list-style-type: none"> • Main Idea & Details (CL-1, A-2 What are Galaxies)
<p>3rd Earth and Space Science Standard 5. ESS.3 Investigate ways individual communities within the United States protect the Earth’s resources and environment.</p>		
<ul style="list-style-type: none"> • Changing Face of Earth, The • Earth’s Systems • Exploring the Ocean’s Depths • Invasive Species • Natural Hazards that Shape the Earth • Our Planet Earth • Polluting Our Earth • Powering Our Lives with Energy 	<ul style="list-style-type: none"> • All About Recycling (A) • A Computer's Best Friend (A) • Earthquakes (V) • Robotic Arms (V) • Debris Filling the Ocean(V) 	<ul style="list-style-type: none"> • Click or Clunk: Metacognition (CL2,A2 Garbage Island) • Click or Clunk (CL-1, A-1 Why Save Rainforests?) • Click or Clunk (CL-2, A-1 Illegal Wildlife Trade) • Click or Clunk: Metacognition (CL1, A3 The Many Uses of Submarines)
<p>4th Earth and Space Science Standard 5. ESS.4 Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.</p>		
<ul style="list-style-type: none"> • Earth's Systems • Polluting Our Earth 	<ul style="list-style-type: none"> • The Water Cycle (A) • All about Recycling (A) • Rocks Rock! (A) • When Lightning strikes (V) • What is Sea Ice and Why is it Shrinking?(V) • Earthquakes (V) 	<ul style="list-style-type: none"> •

Readorium Alignment with Indiana State Science Standards: Grade 5

Engineering, Technology and Application of Science (ETAS)

Readorium Books By Standard	Magazine Articles (A) and Science Videos (V) By Standard	Teacher Resource Center Classroom Strategy Lessons (CL) with Articles (A) by Standard
1st Science Standard		
3-5.E.1 Identify a simple problem with the design of an object that reflects a need or a want. Include criteria for success and constraints on materials, time, or cost.		
<ul style="list-style-type: none"> • Computer Revolution, The • Deep Space • Earth’s Systems • Exploring the Ocean's Depths • Improving Lives with Assistive Technology • Living in Space • Making Movie Magic • Olympic Champs: It's Not Just Luck – It's Physics! • On the Move with Transportation Technology • Powering Our Lives with Energy • Technology Changes Medicine 	<ul style="list-style-type: none"> • Look, a Rainbow (M) • Amazing Teen Scientist (M) • A Computer's Best Friend (M) • The Science of Movie Stunts (M) • Cool Beams! (M) • Excuse Me, But Burping is Natural (M) • Hair Time! (M) 	<ul style="list-style-type: none"> •
2nd Science Standard		
3-5.E.2 Construct and compare multiple plausible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.		
<ul style="list-style-type: none"> • Improving Lives with Assistive Technology • Living in Space • Olympic Champs: It's Not Just Luck – It's Physics! • On the Move with Transportation Technology • Powering Our Lives with Energy • Science - What's it All About? • Solving Crime with Forensics • Technology Changes Medicine 	<ul style="list-style-type: none"> • Amazing Teen Scientist (M) • A Computer's Best Friend (M) • Why Are Some Hands More "Handy" Than Others?(M) • Mysteries of the Common Cold(M) • Breathe Easier - Understanding Asthma(M) 	<ul style="list-style-type: none"> •
3rd Science Standard		
3-5.E.3 Construct and perform fair investigations in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.		
<ul style="list-style-type: none"> • Science - What's It All About? 	<ul style="list-style-type: none"> • Amazing Teen Scientist (M) • A Computer's Best Friend (M) • Biotechnology (M) • The Science of Movie Stunts (M) • How Do We Think? (M) 	<ul style="list-style-type: none"> •