

TITLE	OH STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
A Trip Through the Solar System * ISBN 0022846662 6 PK ISBN 0022864539	PS-3, SI-5, SWK-3	N	730	<i>A Trip Through the Solar System</i> describes the characteristics of each planet in the solar system, describes the conditions that allow life to flourish on Earth, and mentions that humans have observed the planets for thousands of years.	orbit planet solar system
Amazing Earth ISBN 0022846654 6 PK ISBN 0022864520	ESS-3, SI-5	L	620	<i>Amazing Earth</i> describes Earth's lithosphere, explains that the lithosphere is divided into plates that move, and compares Earth's lithosphere to that of other planets. The hydrosphere and atmosphere are also discussed in this book.	atmosphere hydrosphere lithosphere
Amazing Invertebrates * ISBN 0022858784 6 PK ISBN 0022865837	LS-2, LS-3	N	520	<i>Amazing Invertebrates</i> distinguishes vertebrates and invertebrates and describes in detail many kinds of invertebrates. Invertebrate adaptations for movement, finding food, and staying safe are discussed.	invertebrate mollusk vertebrate
Animal Life Cycles * ISBN 0022858792 6 PK ISBN 0022865861	LS-1, LS-2	N	450	<i>Animal Life Cycles</i> defines the terms life span and metamorphosis. It describes the life cycle of various animals, including mammals, birds, butterflies, and amphibians.	chrysalis larva life cycle
Bad Weather ISBN 0022858768 6 PK ISBN 0022865942	LS-6, SI-5	J	430	<i>Bad Weather</i> defines weather and uses a diagram to illustrate the water cycle. It also describes in detail many forms of severe weather including thunderstorms, lightning, tornadoes, and hurricanes.	hurricane tornado weather

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California Condor ISBN 0022846581 6 PK ISBN 0022864458	LS-1, LS-6, ST-2	L	640	California Condor identifies the factors that led to the decline of the California condor population. It also describes measures that are being taken to save the condor from extinction.	extinct habitat wilderness
Chocolate ISBN 0022846719 6 PK ISBN 0022864571	SI-6, SWK-3	O	700	Chocolate explores the history of chocolate, resources required to make chocolate commercially, and the manufacturing process used to make chocolate.	liquid mixture solid
Claws and Wings and Other Neat Things ISBN 0022859438 6 PK ISBN 0022865845	LS-2, LS-3, SI-6	Q	620	Claws and Wings and Other Neat Things describes adaptations that help living things survive. Examples include a falcon's wings, a wolf's fur, and a badger's claws.	environment peregrine falcon survive
Cool Cats ISBN 0022846522 6 PK ISBN 0022864393	LS-2, LS-3, SI-6	L	510	Cool Cats describes the characteristics of different members of the cat family. Similarities and difference between different types of cats are discussed.	domestic: predator savanna
Coral Reefs * ISBN 0022846565 6 PK ISBN 0022864431	LS-2, LS-6, SI-6	N	750	Coral Reefs identifies locations where coral reefs are found, explains how coral reefs are formed, and describes the great variety of living things found in a coral reef environment. It also describes ways that human activity threatens coral reefs and ways that coral reefs can be protected.	coral polyp coral reef limestone
Electrical Inventions ISBN 002285939X 6 PK ISBN 0022866019	ST-1, ST-2, ST-3, SI-5, SWK-3, SWK-4, SWK-5	P	700	Electrical Inventions describes inventions, such as the electric light and the electric motor. Information about inventors and current electrical innovations are also included.	circuit conductor invention

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Energy for Your Body * ISBN 0022846735 6 PK ISBN 0022864598	LS-2, SI-5, SI-6	N	780	<i>Energy for Your Body</i> explains why the human body needs energy, identifies that food is the energy source used by humans, and describes how the digestive system changes food to a form the body can use.	carbohydrate mineral protein
Exploring Mars ISBN 0022846670 6 PK ISBN 0022864547	PS-3, ST-1, ST-2, ST-3, SI-5, SI-6, SWK-3, SWK-4, SWK-5	P	730	<i>Exploring Mars</i> explains how humans have learned about Mars throughout history. Technology, such as orbiters and landers, which advance science are also described.	astronomer lander orbiter
Fossil Hunters ISBN 0022861696 6 PK ISBN 0022865926	ESS-1, LS-5, SI-6, SWK-3, SWK-4, SWK-5	I	610	<i>Fossil Hunters</i> describes how fossils are formed, what paleontologists can learn by studying fossils, and tools that fossil hunters use.	dinosaur fossil paleontologist
Gems * ISBN 0022858814 6 PK ISBN 0022865934	ESS-1, SI-4, SWK-3	N	540	<i>Gems</i> describes gems and minerals, describes how to grow crystals, and identifies the many uses of diamonds.	crystal mineral precious
Glassmaking ISBN 0022846689 6 PK ISBN 0022864555	ST-1, ST-2, ST-3, SI-6, SWK-3	M	670	<i>Glassmaking</i> identifies the resources used to produce glass, describes the process of manufacturing glass, and includes a timeline of the history of glass.	heat hollow solid
Growing a Garden ISBN 0022858741 6 PK ISBN 0022865853	SI-1, SI-5, SI-6	I	400	<i>Growing a Garden</i> explains that humans use gardens to produce food and describes the function of a plant's parts. The basic needs of plants are identified and photosynthesis is defined.	bulb fertilizer photosynthesis

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TITLE	OH STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
How Earthquakes & Volcanoes Shape the Earth * ISBN 0022858806 6 PK ISBN 002286590X	LS-6, ST-2, ST-3	N	580	<i>How Earthquakes and Volcanoes Shape Earth</i> describes tectonic plates, illustrates how volcanoes and earthquakes change Earth's surface, and explains how scientists help people stay safe in the event of a volcanic eruption or earthquake.	earthquake fault volcano
Living Communities ISBN 002285875X 6 PK ISBN 0022865888	LS-2, SI-6	J	460	<i>Living Communities</i> identifies the components of an ecosystem, explains the interactions that occur in ecosystems, and describes in detail ecosystems found in hot deserts, cold deserts, grasslands, tundra, and rain forests.	community ecosystem food web
Machines That Build ISBN 0022859454 6 PK ISBN 0022866000	PS-3, PS-4, SI-5	P	690	<i>Machines That Build</i> defines the scientific meaning of the word work, illustrates examples of simple machines, and shows how simple machines are combined in machines used in construction.	compound machine simple machine work
Mighty Metals ISBN 0022858776 6 PK ISBN 0022865969	ESS-1, ST-2, ST-3	J	430	<i>Mighty Metals</i> describes how metals are used and how metals are mined. The properties of particular metals that makes them well-suited for certain applications are described.	alloy metal ore
Moving Fast ISBN 0022861718 6 PK ISBN 0022865993	PS-2, ST-2, ST-3, SI-6	J	700	<i>Moving Fast</i> describes and compares the speeds of the fastest-moving animals, cars, trains, planes and people.	distance measure speed
Natural Defenses * ISBN 0022846530 6 PK ISBN 0022864407	LS-2, SI-5, SI-6	N	740	<i>Natural Defenses</i> describes adaptations that plants and animals use to stay safe. Examples of adaptations described include thorns, quills, poisons, and bad smells.	defense poison spines

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Predator and Prey ISBN 002286167X 6 PK ISBN 0022865896	LS-2, LS-6, SI-5, SI-6	O	680	Predators and Prey describes the predator/prey relationship, and identifies adaptations that enhance predators' ability to hunt and preys' ability to stay safe.	camouflage defense predator
Sun Stories ISBN 002284662x 6 PK ISBN 0022864482	SI-6, SWK-3	L	540	Sun Stories describes the importance of the Sun. It also explores ways that ancient cultures, such as the Egyptians, Greeks, Maya, and Aztecs, explained the Sun.	solar eclipse solar system star
The Sounds of Music ISBN 0022846727 6 PK ISBN 002286458X	LS-2, SI-5, SI-6	L	780	The Sounds of Music explains that sound is generated by vibrating objects and describes how the ear hears sounds. It gives a detailed description of each family of musical instruments.	percussion sound waves vibration
The Way Eyes See It * ISBN 002284676X 6 PK ISBN 0022864636	LS-2, SI-6	N	690	The Way Eyes See It describes the human eye and compares it to several kinds of animal eyes.	cornea iris lens
Volcano! ISBN 0022861688 6 PK ISBN 0022865918	ESS-1, ST-1, ST-2, ST-3, SI-5, SI-6, SWK-3	O	650	Volcano! describes volcanic eruptions in detail. It explains the cause of eruptions, the effects of eruption, and methods scientists use to predict eruptions.	ash erupt magma
Watching the Weather * ISBN 0022858822 6 PK ISBN 0022865950	SI-1, SI-3, SI-5, SI-6, SWK-3, SWK-4, SWK-5	M	510	Watching the Weather defines weather, describes tools used to track weather, and includes instructions for setting up a weather station.	air pressure meteorologist rain gauge

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Water, Water Everywhere * ISBN 0022846697 6 PK ISBN 0022864563	SI-6	N	730	<i>Water, Water, Everywhere</i> describes the three states in which water exists on Earth, explains the properties of water molecules, and describes the water cycle.	gas matter water cycle
Wetlands ISBN 0022846611 6 PK ISBN 0022864474	LS-6, SI-6, SWK-3, SWK-5	O	670	<i>Wetlands</i> describes different types of wetlands, identifies some living things found in wetlands, explains the ecological and economic importance of wetlands, and describes measures that can be taken to save wetlands.	ecosystem marsh swamp
What Makes You Special? ISBN 0022858849 6 PK ISBN 002286587X	SI-6	P	510	<i>What Makes You Special?</i> describes genetic traits, explains how traits are passed from parent to offspring, and illustrates the structure of DNA.	DNA heredity trait
What Sinks and Floats ISBN 0022858857 6 PK ISBN 0022865985	SI-2, SI-5, SI-6	P	490	<i>What Sinks and Floats</i> defines matter and density. It also describes experiments about sinking and floating that students can carry out.	density mass volume
What Your Body is Made Of * ISBN 0022858830 6 PK ISBN 0022865977	LS-2, SI-3, SI-6	N	540	<i>What Your Body Is Made Of</i> identifies the most common elements in the human body, describes the role of water in the body, and explains how food is used to supply nutrients to the body.	cell element nutrient

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Why We Need the Sun ISBN 0022846646 6 PK ISBN 0022864512	ST-2, ST-3, SI-6	O	630	<i>Why We Need the Sun</i> describes how the Sun impacts Earth's weather and how fossil fuels form. It also describes Sun safety tips.	fossil fuel solar energy water cycle
Wind Energy ISBN 0022846743 6 PK ISBN 002286461X	LS-6, ST-2, ST-3, SI-5, SI-6	P	730	<i>Wind Energy</i> explains how wind energy has been used in the past and present. It also offers predictions about ways that wind energy may be used in the future.	generator wind wind farm

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Ohio Science Academic Content Standards

Standard 1

Earth and Space Sciences

Earth Systems

- ESS-1 Compare distinct properties of rocks (e.g., color, layering and texture).
- ESS-2 Observe and investigate that rocks are often found in layers.
- ESS-3 Describe that smaller rocks come from the breakdown of larger rocks through the actions of plants and weather.
- ESS-4 Observe and describe the composition of soil (e.g., small pieces of rock and decomposed pieces of plants and animals, and products of plants and animals).
- ESS-5 Investigate the properties of soil (e.g., color, texture, capacity to retain water, ability to support plant growth).
- ESS-6 Investigate that soils are often found in layers and can be different from place to place.

Standard 2

Life Sciences

Heredity

- LS-1 Compare the life cycles of different animals including birth to adulthood, reproduction and death (e.g., egg-tadpole-frog, egg-caterpillar-chrysalis-butterfly).

Diversity and Interdependence of Life

- LS-2 Relate animal structures to their specific survival functions (e.g., obtaining food, escaping or hiding from enemies).
- LS-3 Classify animals according to their characteristics (e.g., body coverings and body structure).
- LS-4 Use examples to explain that extinct organisms may resemble organisms that are alive today.
- LS-5 Observe and explore how fossils provide evidence about animals that lived long ago and the nature of the environment at that time.

LS-6

Describe how changes in an organism's habitat are sometimes beneficial and sometimes harmful.

Standard 3**Physical Sciences****Forces and Motion**

PS-1

Describe an objects position by locating it relative to another object or the background.

PS-2

Describe an objects motion by tracing and measuring its position over time.

PS-3

Identify contact/non-contact forces that affect motion of an object (e.g., gravity, magnetism and collision).

PS-4

Predict the changes when an object experiences a force (e.g., a push or pull, weight and friction).

Standard 4**Science and Technology****Understanding Technology**

ST-1

Describe how technology can extend human abilities (e.g., to move things and to extend senses).

ST-2

Describe ways that using technology can have helpful and/or harmful results.

ST-3

Investigate ways that the results of technology may affect the individual, family and community.

Abilities To Do Technological Design

ST-4

Use a simple design process to solve a problem (e.g., identify a problem, identify possible solutions and design a solution).

ST-5

Describe possible solutions to a design problem (e.g., how to hold down paper in the wind).

Standard 5**Scientific Inquiry****Doing Scientific Inquiry**

- SI-1 Select the appropriate tools and use relevant safety procedures to measure and record length and weight in metric and English units.
- SI-2 Discuss observations and measurements made by other people.
- SI-3 Read and interpret simple tables and graphs produced by self/others.
- SI-4 Identify and apply science safety procedures.
- SI-5 Record and organize observations (e.g., journals, charts and tables).
- SI-6 Communicate scientific findings to others through a variety of methods (e.g., pictures, written, oral and recorded observations).

Standard 6**Scientific Ways of Knowing****Nature of Science**

- SWK-1 Describe different kinds of investigations that scientists use depending on the questions they are trying to answer.

Ethical Practices

- SWK-2 Keep records of investigations and observations and do not change the records that are different from someone else's work.

Science and Society

- SWK-3 Explore through stories how men and women have contributed to the development of science.
- SWK-4 Identify various careers in science.
- SWK-5 Discuss how both men and women find science rewarding as a career and in their everyday lives.