

# Macmillan McGraw-Hill's *Science: A Closer Look*

## Leveled Reader Correlation to FOSS Modules

### FOSS MODULE: KINDERGARTEN

<b>ANIMALS TWO BY TWO</b>	Provides students with close and personal interactions with some common land and water animals. Appropriate classroom habitats are established, and students learn to care for animals. Students are introduced to animal similarities and differences in structure and behaviors
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
K	Animals on the Move	0022863818	B	3	Discusses some of the different ways in which animals move
K	All About Animals	0022863826	C	8	Explores the special body parts some animals have that enable them to live in their habitats
K	At the Petting Zoo	0022792988	C	6	Describes texture words through illustrations of zoo animals
K	Our Desert Home	0022793054	C	8	Explores how the desert is home to many plants and animals
K	Animals Grow	0022827137	D	8	Explores how animals grow and change
K	What Kind of Animal Are You?	0022863796	A	2	Helps children discover that they are mammals
1	What People and Animals Need (A)	0022863990	B	8	Discusses the basic needs of people and animals
1	Pond Life (A)	002286539X	D	6	Explores the plant and animal life of a fresh-water pond environment
1	A World of Animals (OL)	0022864016	E	8	Discusses animal body parts and their purposes
1	What Would We Do Without Bees? (OL)	0022864040	E	8	Discusses the role that bees play in nature, pollinating plants and producing honey
1	Amazing Animals (B)	0022864024	G	14	Explores the special body parts that enable animals to live in different places
1	Animal Homes (B)	0022865403	G	12	Give an introductory look at animals and their habitats
2	Animals in Danger (A)	0022865586	G	12	Explore show human actions can affect animals in the wild and what people can do to help protect wildlife

## FOSS MODULE: KINDERGARTEN

<b>TREES</b>	Systematic investigation of trees provides students with experiences to help them understand plants and their basic needs of nutrients, water, soil, light and air. Focus on observations throughout the year noting the changes in each season.
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
K	All Kinds of Plants	0022792996	B	4	Explores the differences between plants using pictures
K	Plant Parts	0022793003	C	6	Clear illustrations help children identify the parts of plants
K	A Favorite Season	0022793062	D	8	Children discover a family in which each member likes a different season
K	Plants Grow	0022827129	B	4	Explores the needs of plants and how people and the environment can provide those needs
K	Small Plants Tall Plants	0022863761	A	4	Introduces children to some similarities and differences among plants
K	Where Do Plants Live?	002286377X	B	4	Discusses some of the different places in which plants live
K	From Seed to Sunflower	0022863788	C	4	Explores the growth of a sunflower from a seed
1	Watch It Grow (A)	0022863966	B	6	Explore the growth of a tomato plant from seed to vine
1	In the Garden (A)	0022865365	B	2	Visit to a garden to introduce the concept of living and nonliving things
1	The Four Seasons (A)	0022864091	B	8	Gives a brief overview of the four seasons and the typical weather each brings
1	Good to Eat (OL)	0022865373	E	8	Explores edible plant parts
1	The Tallest Tree (OL)	0022863974	E	10	Tells how a seed becomes a tree and looks at the Earth's largest tree, the giant sequoia
1	Two Trees (B)	0022863982	G	12	Compares and contrasts a desert ironwood tree to a coast redwood tree
1	Parts of Plants (B)	0022865381	H	14	Names the various parts of a plant and the function of each
2	Desert Life (A)	0022865616	E	8	Explores desert life and how plants and animals have adapted to the dry climate
2	Two Kinds of Forests (OL)	0022865624	J	20	Explores how climate affects the plants and animals of a woodland forest and a tropical rain forest

## FOSS MODULE: KINDERGARTEN

<b>FABRIC</b>	Students are introduced to a wide variety of fabrics; become familiar with their properties, discover what happens when they are tested, and how they interact with other materials, including water.
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
K	Soft or Hard?	0022863893	A	4	Introduces one type of matter - solids - and the properties of hardness and softness
K	What Will I Wear Today?	0022863885	C	4	Explores the clothing choices people make for different kinds of weather during the seasons
K	Made from Clay	0022863915	B	4	Explores how clay changes form and how people work with clay to make many objects
1	What is Wool? (B)	0022865462	H	14	Shows where wool comes from and how it is used to make clothing

## FOSS MODULE: KINDERGARTEN

<b>WOOD AND PAPER</b>	Students observe the properties of these two materials (wood and paper), discover what happens when they interact with other materials, are introduced to recycling and the concept of natural resources
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
K	Melting Snow	0022863931	A	4	Provides a look at two states of matter - a solid and a liquid
K	Matter Changes	0022863958	C	6	Explores the three states of water - solid, liquid, and gas
K	Recycle, Reduce, Reuse	0022863850	C	4	Introduces the three R's of protecting the environment; recycle, reduce, reuse
K	Working With Wood	0022827188	E	10	Explores how wood is a natural resource that can be changed with tools to make new objects
1	Boats Float (A)	0022864121	B	6	Takes an introductory look at matter to define a solid, a liquid, and a gas
1	Let's Bake a Cake! (A)	0022864156	B	8	Looks at the baking process in order to explore how matter can change state

1	Things Change (OL)	0022864164	E	10	Discusses some of the ways in which matter can change
1	How Does Matter Change? (B)	0022864172	G	12	Explores how matter changes

### FOSS MODULE: Grades 1 - 2

<b>INSECTS</b>	Students observe the structure and behaviors of various insects while learning about the diversity of animal forms. Observations include needs of insects, life cycles and stages of metamorphosis.
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
K	All About Animals	0022863826	C	8	Explores the special body parts some animals have that enable them to live in their habitats
1	What People and Animals Need (A)	0022863990	B	8	Discusses the basic needs of people and animals
1	Pond Life (A)	002286539X	D	6	Explores the plant and animal life of a fresh-water pond environment
1	A World of Animals (OL)	0022864016	E	8	Discusses animal body parts and their purposes
1	What Would We Do Without Bees? (OL)	0022864040	E	8	Discusses the role that bees play in nature, pollinating plants and producing honey
1	Amazing Animals (B)	0022864024	G	14	Explores the special body parts that enable animals to live in different places
1	Animal Homes (B)	0022865403	G	12	Give an introductory look at animals and their habitats
2	Animal Parents (A)	0022864210	H	18	Explores the relationship between animal parents and their offspring
2	Wait and See (OL)	0022864229	J	20	Investigates three animals that hatch from eggs' caterpillars, tadpoles, and turtles
2	Water Habits (B)	0022865632	L	28	Discusses a variety of water habitats and the animals that live in them

### FOSS MODULE: Grades 1 - 2

<b>NEW PLANTS</b>	Students care for plants and develop an awareness of the diversity of life in the plant kingdom. Observations and descriptions include the structure and function of flowering plants; changes as they grow and understanding the needs of plants
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## SUGGESTED LEVELED READERS (continued for New Plants)

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
K	Small Plants Tall Plants	0022863761	A	4	Introduces children to some similarities and differences among plants
K	Where Do Plants Live?	002286377X	B	4	Discusses some of the different places in which plants live
K	From Seed to Sunflower	0022863788	C	4	Explores the growth of a sunflower from a seed
1	Watch It Grow (A)	0022863966	B	6	Explore the growth of a tomato plant from seed to vine
1	In the Garden (A)	0022865365	B	2	Visit to a garden to introduce the concept of living and nonliving things
1	Good to Eat (OL)	0022865373	E	8	Explores edible plant parts
1	Parts of Plants (B)	0022865381	H	14	Names the various parts of a plant and the function of each
2	Big Orange Pumpkins (A)	0022864180	H	18	Explains step-by-step, how a small pumpkin seed becomes a big orange pumpkin
2	From Seed to Tree (OL)	0022864199	J	20	Gives step by step explanation of how an apple tree grows from a seed
2	Apple Trees (B)	0022864202	L	28	Explains the life cycle of an apple tree

## FOSS MODULE: Grades 1 - 2

<b>BALANCE AND MOTION</b>	Students experience how different things move and investigate the forces that make them move
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## SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
K	Toys That Move	0022793046	C	6	Explores how children make their favorite toys move by pushing or pulling them
1	Fun with Magnets (A)	0022865527	B	6	Explores how magnets push (repel) and pull (attract) objects
1	Where are They? (OL)	0022865535	F	10	Explores position words by examining where animals in a forest are located
1	Forces at Play (B)	0022865543	H	14	Explores the scientific concept of forces and motion

## SUGGESTED LEVELED READERS (continued for Balance and Motion)

2	Get Moving! (A)	0022864334	H	18	Explore forces, tools, and simple machines that push and pull
2	Beyond the Sky (OL)	0022865721	J	20	Explores how Earth orbits the Sun and 'spins' to give us day and night
2	Push or Pull? (OL)	0022864342	J	20	Explores how people, animals, and machines use the forces of push and pull to move things
2	Journey into Space (B)	002286573X	K	22	Provides a brief look at the history of flight and space exploration
3	Moving Fast (A)	0022865993	L	28	Takes a look at some of the fastest animals, vehicles, and people on Earth

### FOSS MODULE: Grades 1 - 2

<b>SOLIDS AND LIQUIDS</b>	This module provides experiences with matter as students interact with solids and liquids, describing their properties and interactions
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## SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
K	Soft or Hard?	0022863893	A	4	Introduces one type of matter - solids - and the properties of hardness and softness
K	Toys That Move	0022793046	C	6	Explores how children make their favorite toys move by pushing or pulling them
1	Solids, Liquids, and Gases (OL)	002286413X	E	8	Explores solids, liquids and gases
1	The Story of Water (B)	0022864148	G	14	Discusses the water cycle and two states of water - liquid and gas
2	Mix it Up (A)	0022865772	F	10	Explores mixtures and solutions
2	Water for Life (A)	0022865675	G	12	Explains the water cycle
2	Matter and Change (A)	0022865748	G	12	Discusses the three states of matter- solid, liquid, gas- and how temperature can change matter
3	Glassmaking (A)	0022864555	L	28	Explores the three states of matter by examining glass and glassmaking

## SUGGESTED LEVELED READERS (continued for Solids and Liquids)

3	Water, Water, Everywhere (OL)	0022864563	N	32	Uses water and the water cycle to discuss the three states of matter - solid, liquid, and gas
3	Chocolate (B)	0022864571	O	38	Explores the states of matter by examining the history and manufacture of chocolate

### FOSS MODULE: Grades 1 - 2

<b>AIR AND WEATHER</b>	This module introduces students to concepts in earth science as they explore air; weather; monthly and seasonal changes; location of the Sun and Moon in the sky
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## SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
K	What is the Weather?	0022863877	B	4	Uses words and picture clues to explore different kinds of weather
K	Clouds	0022827161	C	6	Children discover different types of clouds and explore their relationship to weather
K	That Night Sky	002282717X	C	6	By observing the sky at night, children discover that the Moon changes phase and the stars form patterns in the sky
1	What Goes Around? (A)	0022865470	B	6	Shows the orbits of the Earth and Moon and show the Sun shines on both
1	When the Weather Changes (OL)	0022864105	E	8	Talks about the typical weather experienced during each of the four seasons
2	Day and Night (A)	0022865713	E	8	Explains why Earth has day and night
2	Beyond the Sky (OL)	0022865721	J	20	Explores how Earth orbits the Sun and 'spins' to give us day and night
2	What do Clouds Tell Us? (OL)	0022865683	J	20	Explore different type of clouds and the weather they help to predict
2	Tracking Weather (B)	0022865691	L	28	Explores weather and the tools used to describe and forecast the weather
3	Bad Weather (A)	0022865942	J	20	Discusses different kinds of severe weather and what causes these conditions
3	Watching the Weather (OL)	0022865950	M	28	Explores weather and how people can measure and predict the weather

## FOSS MODULE: Grades 1 - 2

<b>PEBBLES, SAND, AND SILT</b>	This module introduces students to concepts in earth science as they explore earth materials and natural resources; focus on similarities and differences of river rock mixtures and soils based on their properties
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
K	Rocks	0022827145	C	6	Explores rocks and classification based on characteristics
K	What's in the Soil?	0022793038	C	6	Introduces the many things that can be found in soil
1	Look for Rocks (OL)	002286542X	E	8	Explores different types of rocks
1	Bryce Canyon (B)	0022865438	H	14	Tells how wind and water have shaped the rocks of Bryce Canyon
2	Soil (A)	0022864245	H	20	Describes different layer of soil and the importance of soil to living things
2	Minerals (B)	0022864261	L	28	Explores a variety of minerals and their characteristics

## FOSS MODULE: Grades 3 - 4

<b>HUMAN BODY</b>	This module introduces students to the function and form of the human body with a focus on bones, muscles and coordination
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
2	The Camera's Eye (B)	0022865829	L	28	Examines the way in which the human eye and camera take in light to receive e and record images
3	Food: Energy for Your Body (OL)	0022864598	N	34	Discusses how the human body gets the energy it needs form the five food groups
3	The Way Eyes See It (OL)	0022864636	N	34	Explores the eyes of animals and how they help the animals to survive



## SUGGESTED LEVELED READERS (continued for Human Body)

3	What Your Body is Made of (OL)	0022865977	N	34	Explores some of the major elements that make up the human body
3	What Makes you Special? (B)	002286587X	P	38	Explores heredity by defining DNA and examining traits inherited from parents
4	Scientists and Cells (A)	0022866027	L	28	Discusses how scientists discovered cells and why that discovery was important

## FOSS MODULE: Grades 3 - 4

<b>STRUCTURES OF LIFE</b>	This module focuses on the observable characteristics of organisms; investigate the structures and functions that help organisms grow and survive. Life cycle of the bean; crayfish and land snail structures and behavior
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## SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
2	Big Orange Pumpkins (A)	0022864180	H	18	Explains step-by-step, how a small pumpkin seed becomes a big orange pumpkin
2	Animal Parents (A)	0022864210	H	18	Explores the relationship between animal parents and their offspring
2	From Seed to Tree (OL)	0022864199	J	20	Gives step by step explanation of how an apple tree grows from a seed
2	Apple Trees (B)	0022864202	L	28	Explains the life cycle of an apple tree
3	Growing a Garden (A)	0022865853	I	16	Discusses different kinds of plants and how to grow them in a garden
3	Natural Defenses (OL)	0022864407	N	30	Discusses the natural defenses that plants and animal's have to protect themselves
3	Coral Reefs (OL)	0022864431	N	30	Explores the underwater community of coral reefs
3	Amazing Invertebrates (OL)	0022865837	N	30	Explores the characteristics of invertebrates and their amazing variety
3	Animal Life Cycles (OL)	0022865861	N	32	Examines the life cycle of four different kinds of animals; cats, ducks, butterflies and salamanders
3	Wetlands (B)	0022864474	O	38	Explores wetlands and their importance to the environment
3	Predator and Prey (B)	0022865896	P	38	Explores the relationship between predators and prey in the balance of nature

## SUGGESTED LEVELED READERS (continued for Structures of Life)

3	Claws and Wings and Other Neat Things (B)	0022865845	Q	40	Explores how animals use their special body parts to survive
4	Which is Which? (A)	0022866043	L	28	Discusses how scientists classify animals. It also focuses on five pairs of animals that are easily and often confused
4	Desert Animals and Plants	0022864652	O	38	Discusses adaptations that enable animals and plants to survive in the desert
4	Caves: A World of Their Own (OL)	0022864660	Q	40	Discusses different types of caves and the organisms that live in these habitats
4	What on Earth is a Platypus? (OL)	0022866035	R	40	Records the process that enabled scientists to classify the platypus
4	What's New on Earth (OL)	0022866051	R	40	A look at animals that have been newly discovered on Earth
4	Partners in Nature (B)	0022864679	S	42	Explores the symbiotic relationship of several animals
4	Animal Senses (B)	002286606X	T	42	Investigates how animals use their senses to explore the world around them and survive
5	Weird and Wonderful Plants (OL)	002286492X	U	44	Explores the strange way in which some plants find or make their own food
5	Animal Adaptations (B)	0022864962	V	46	Explores adaptations that enable animals to find food or a mate, to move, or to protect themselves

## FOSS MODULE: Grades 3 - 4

<b>PHYSICS OF SOUND</b>	This module focuses sounds are generated; made louder or softer; or get from sender to receiver
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## SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
3	The Sounds of Music (A)	002286458X	L	28	Explores sound as movement and tells how various musical instruments produce sound

## FOSS MODULE: Grades 3 - 4

<b>MAGNETISM AND ELECTRICITY</b>	These investigations provide opportunities for students to explore magnets, magnetic force, circuits, conductors, insulators, and the relationship between magnetism and electricity
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
2	Electricity (A)	0022865802	E	8	Explores the nature and uses of electricity
2	All About Magnets (B)	0022864385	L	28	Explores what magnets are and what they can do
3	Electrical Inventions (B)	0022866019	P	38	Gives a brief introduction to inventions that came about through the study of electricity
4	It's Electric! (OL)	0022864822	Q	40	Explains how electricity is made, stored and delivered to homes
4	Maglev Trains (B)	0022864865	S	42	Examines how magnets are used to operate environmentally safe maglev trains
5	Magnetism (A)	0022866388	P	38	Explores magnets, magnetic fields, and the relationship between magnetism and electricity

## FOSS MODULE: Grades 3 - 4

<b>EARTH MATERIALS</b>	These investigations provide opportunities for students to explore the solid materials of Earth – rocks and minerals and to better understand their properties
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
2	Soil (A)	0022864245	H	20	Describes different layer of soil and the importance of soil to living things
2	Minerals (B)	0022864261	L	28	Explores a variety of minerals and their characteristics
3	Amazing Earth (A)	0022864520	L	28	Explores Earth's special features - land, water, and air - that enable it to sustain life
3	Gems (OL)	0022865934	N	32	Examines gemstones and explains how they are formed and why they are valuable

## SUGGESTED LEVELED READERS (continued for Earth Materials)

4	Diamonds (A)	0022864717	O	38	Examines the characteristics and uses of diamonds, explaining where and how they are formed, and why they are valuable
4	What Is Happening to the Beach? (OL)	002286475X	Q	40	Explores the process of erosion, its effect upon beaches, and how science is working to solve the problem
4	Rocks (OL)	0022864725	Q	40	Explains how rocks form and the changes they undergo during the rock cycle
4	Barrier Islands (OL)	0022866116	R	40	Explores the changes that take place on barrier islands
4	The Grand Canyon (B)	0022864768	S	42	Take a trip through the Grand Canyon, examining what scientists have learned about its formation
4	Gold! (B)	0022866167	S	44	Explores the element gold, including its properties, use and value
4	Acids and Bases (B)	0022866191	T	44	Identifies acids and bases and explores the effects of each
5	Carbon All Around (OL)	002286508X	U	46	Examines one of the most abundant and essential elements on Earth – carbon

### FOSS MODULE: Grades 3 - 4

<b>WATER</b>	Students explore the properties of water, changes in water, interactions between water and other earth materials, and how humans use water
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## SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
3	Water, Water, Everywhere (OL)	0022864563	N	32	Uses water and the water cycle to discuss the three states of matter - solid, liquid, and gas
4	Why Does it Rain? (A)	0022866108	L	28	Explains the water cycle and how rain forms
4	Glaciers (A)	0022864741	O	38	Explores how Earth changes by investigating how glaciers form and why they are disappearing
4	What Is Happening to the Beach? (OL)	002286475X	Q	40	Explores the process of erosion, its effect upon beaches, and how science is working to solve the problem
5	Earth's Water (A)	0022864997	S	42	Examines the uses of water, as well as the water cycle, recycling, pollution, and conservation
5	The Water Cycle (OL)	0022864989	U	44	Discusses the water cycle, sources of fresh water, and water conservation

## FOSS MODULE: Grades 3 - 4

<b>IDEAS AND INVENTIONS</b>	Students explore techniques for chromatography, rubbing, carbon printing and mirror imagery while developing creativity and inventiveness
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
2	Bicycle Metals (B)	0022865799	K	22	Provide information about the types of metals used to construct a bicycle frame and explains the process of building such a frame
2	Alexander Graham Bell (OL)	0022865810	K	22	Introduces children to Alexander Graham Bell and his most famous invention, the telephone
2	Hot-Air Balloons (B)	0022865764	L	28	Explores the history of hot air balloons and how and why they take flight
3	Mighty Metals (A)	0022865969	J	20	Examines the properties and uses of different metals
3	Exploring Mars (B)	0022864547	O	38	Outlines how scientists have explored Mars and what they have learned about it
3	Wind Energy (B)	002286461X	O	38	Explores wind as an environmentally friendly energy source
3	Machines that Build (B)	0022866000	P	38	Shows how simple machines (the level, the inclined plane, and the pulley) as well as compound machines make work easier
4	The Galileo Mission to Jupiter	002286993X	K	22	Outlines the Galileo mission to Jupiter
4	Scientists and Cells (A)	0022866027	L	28	Discusses how scientists discovered cells and why that discovery was important
4	Thomas Edison (A)	0022864814	O	38	Presents a brief overview of Thomas Edison's life and work
4	The Story of Alloys (OL)	0022866183	R	40	Explores the history of alloys, their uses, and their effect on our lives
4	Machines (OL)	0022866221	R	40	Tells how simple machines and compound machines make work easier
4	Lever in Our Lives (B)	002286623X	T	44	Explores the simplest of machines - the level- and how it is used in our lives
4	Acids and Bases (B)	0022866191	T	44	Identifies acids and bases and explores the effects of each

## SUGGESTED LEVELED READERS (continued for Ideas and Inventions)

5	What is GPS? (A)	0022866280	Q	40	Defines GPS (global Positioning system) and describes its many uses
5	Mixtures and Solutions (A)	0022866345	Q	40	Explores the properties of heterogeneous mixtures, solutions (homogenous mixtures), colloids, and suspensions
5	Carbon All Around (OL)	002286508X	U	46	Examines one of the most abundant and essential elements on Earth – carbon
5	Plastics (B)	0022865136	V	46	Explores the history and development of one of the most versatile materials – plastics
5	Sonar, Radar, and Lasers (B)	0022863418	W	46	Explains sonar, radar, and lasers and cites examples of their many uses.

### FOSS MODULE: Grades 3 - 4

<b>MEASUREMENT</b>	Students explore particular types of metric measurement – length; mass; temperature; volume
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## SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
3	What Sinks and Floats (B)	0022865985	P	38	Examines how mass, volume, and density of an object determine whether it will sink or float

### FOSS MODULE: Grades 5 - 6

<b>ENVIRONMENTS</b>	Students are introduced to the basic concepts of environmental biology as they study factors effecting terrestrial and aquatic systems
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## SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
4	Desert Animals and Plants	0022864652	O	38	Discusses adaptations that enable animals and plants to survive in the desert
4	Caves: A World of Their Own (OL)	0022864660	Q	40	Discusses different types of caves and the organisms that live in these habitats

## SUGGESTED LEVELED READERS (continued for Environments)

4	Hidden Food Webs (OL)	0022864695	Q	42	Explores food webs found underground, on the shore, and in the sea
4	Rain Forests, Coral Reefs and Deserts	0022866078	L	28	Examines three ecosystems and the threats that people pose to them
4	How Can We Save Them? (aka Endangered Animals) (B)	0022866086	U	44	Explores issues that have put species in danger and tells what people can do to save them
5	Mission: Green Earth (OL)	0022866329	U	44	Explores problems associated with the use of nonrenewable energy sources and makes a case for the use of renewable energy sources
5	Seeds and Spores (A)	0022864938	O	38	Explains the different ways in which plants reproduce
5	Costa Rican Rain Forests (A)	0022864946	S	42	Explores Earth's oceans, their ecosystems, and their importance to life on Earth
5	Air Pollution (B)	0022865039	V	46	Explores air pollution, its causes, and its effects on Earth and on all living things
5	Life Goes On (OL)	0022866248	U	42	Discusses sexual and asexual reproduction, linking the ways plants and animals reproduce to the environments in which they live
5	Weird and Wonderful Plants (OL)	002286492X	U	44	Explores the strange way in which some plants find or make their own food
5	Animal Adaptations (B)	0022864962	V	46	Explores adaptations that enable animals to find food or a mate, to move, or to protect themselves
5	Earth's Oceans (B)	0022866272	W	46	Explores Earth's oceans, their ecosystems, and their importance to life on Earth
6	Tracing the Food Web (A)	0022865144	V	56	Explores food webs and shows how plants and animals relate to one another in an ecosystem
6	Ecosystems (B)	0022865160	Y	70	Discusses several endangered ecosystems and suggests how they might be saved
6	Greenhouse Effect (A)	0022865306	V	56	Discusses the greenhouse effect and tells how natural events and human actions on Earth can affect it
6	Hidden Life in a Pond	0022866477	Y	70	Explores microorganisms by taking a look at the hidden life in a pond

### SUGGESTED LEVELED READERS (continued for Environments)

6	Earth's Changing Climate (OL)	0022866523	W	62	Focuses on climate, the factors that affect it, and how scientists study it
6	All About the Moon	002286654X	Z	80	Discusses the Moon, focusing on what scientists have learned about it
6	Exploring the Ocean Depths (OL)	0022866566	X	64	Explores the different zones of the ocean and the animal life that exists in each
6	Building a Biome (OL)	0022865187	X	62	Describes the unique Deserts Biome at the Indianapolis Zoo

### FOSS MODULE: Grades 5 - 6

<b>FOOD AND NUTRITION</b>	Investigations focus on what food is, what is it made of and how several nutrient groups contribute to a healthful nutrition
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
4	A World of Microorganisms (B)	0022864709	S	42	Examines microorganisms found in the body, in food, in water, and in soil
6	Foods that Feed the World (OL)	0022866434	X	64	Compares and contrasts various staples crops around the world
6	Chemical Changes (OL)	0022866590	X	64	Examines simple chemical reactions and changes

### FOSS MODULE: Grades 5 - 6

<b>LEVERS AND PULLEYS</b>	Investigations involve students in exploring the fundamental concepts of simple machines
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
4	Machines (OL)	0022866221	R	40	Tells how simple machines (inclined plane, level, wheel and axle, pulley, screw, and wedge) and compound machines make work easier
4	Levers in Our Lives (B)	002286623X	T	44	Explores the simplest of machines - the level- and how it is used in our lives



## FOSS MODULE: Grades 5 - 6

<b>MIXTURES AND SOLUTIONS</b>	Investigations help students develop an understanding of the fundamental concepts of chemistry as they explore mixtures, solutions and chemical changes
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
4	The Story of Alloys (OL)	0022866183	R	40	Explores the history of alloys, their uses, and their effect on our lives
5	Alloys: Metals in the Mix (OL)	0022865128	U	45	Discusses how alloys are made
5	Mixtures and Solutions (A)	0022866345	Q	40	Explores the properties of heterogeneous mixtures, solutions (homogenous mixtures), colloids, and suspensions
6	Chemical Changes (OL)	0022866590	X	64	Examines simple chemical reactions and changes
6	Alloys	0022866574	Y	70	Explores the history and uses of alloys

## FOSS MODULE: Grades 5 - 6

<b>LANDFORMS</b>	Investigations introduce students to fundamental concepts of earth science; water cycle, erosion, change over time, patterns of interaction
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
4	The Grand Canyon (B)	0022864768	S	42	Take a trip through the Grand Canyon, examining what scientists have learned about its formation
4	Barrier Islands (OL)	0022866116	R	40	Explores the changes that take place on barrier islands
5	Shake, Rattle, Explode! (OL)	0022866299	U	42	Discusses the Ring of Fire and the volcanoes and earthquakes that occur there
5	Earth's Heat (B)	0022866310	W	46	Examines all the layers of Earth, from the surface crust to the inner core
5	The Water Cycle (OL)	0022864989	U	44	Discusses the water cycle, sources of fresh water, and water conservation

## SUGGESTED LEVELED READERS (continued for Landforms)

5	Earth's Water (A)	0022864997	S	42	Examines the uses of water, as well as the water cycle, recycling, pollution, and conservation
6	Antarctica: Land of Snow and Ice (A)	0022865179	V	56	Explores Antarctica, one of the most fascinating ecosystems on Earth
6	Tsunami! (OL)	002286525X	X	64	Discusses tsunamis, their causes and effects and the measures being taken to predict them
6	The Ring of Fire (B)	0022865268	Y	68	Examines natural disasters that take place in the Ring of Fire along the Pacific Ocean
6	Changes at Earth's Surface (A)	0022865276	V	56	Explores agents of change - water, ice, and wind - and how they affect Earth's surface
6	Amazing Water	0022866558	T	52	Examines the properties and characteristics of water

## FOSS MODULE: Grades 5 - 6

<b>SOLAR ENERGY</b>	Students experience solar energy and investigate factors that affect solar-energy transfer
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## SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
4	Fossils and Fossil Fuels (B)	0022866094	T	44	Explains the formation of fossils and fossil fuels
4	Lights and White Nights (OL)	0022866124	Q	40	Explains auroras and why the polar regions experience months of daylight and darkness
4	Sources of Energy (A)	0022866213	N	34	Identifies the different sources of energy people have used in the past and continue to use along with new energy sources
5	What is GPS? (A)	0022866280	Q	40	Defines GPS (global Positioning system) and describes its many uses
6	Finding our Way	0022866531	T	52	Explores the history of navigation, from landmarks, the Sun and stars, to modern navigational methods such as GPS
5	When Energy Changes (OL)	0022866396	T	44	Explores the idea that energy comes from the Sun and is changed from one kind of energy to another

## SUGGESTED LEVELED READERS (continued for Solar Energy)

6	Energy Hunter (OL)	0022865225	X	62	Examines a variety of energy sources available in different parts of Earth
6	Power for Our Future (B)	0022865233	Y	70	Explains the need for alternative energy sources
6	Sun Storms (OL)	0022865314	X	64	Examines how the Sun and the events that take place on the Sun affect life on Earth
6	Powered by the Sun (B)	0022865322	Y	68	Explores ways in which the Sun's energy is used and how it might be harnessed
6	Do Fossil Fuels Have a Future? (OL)	0022865349	X	64	Explores the use of fossil fuels and the need to develop alternate, renewable energy sources

## FOSS MODULE: Grades 5 - 6

<b>MODELS AND DESIGN</b>	Students explore the relationship between the structure and function of materials and systems; investigate variables in design that affect performance of moving carts
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## SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
4	A Chemist in the Kitchen (A)	0022866175	L	28	Introduces chemistry through simple kitchen experiments
4	Thomas Edison (A)	0022864814	O	38	Presents a brief overview of Thomas Edison's life and work
5	The Weather Detectives (OL)	0022865020	U	44	Explores how meteorologists track, study, and predict the weather
5	The Sun and Other Stars (OL)	0022865055	U	45	Examines many different stars, telling how they form, what they are made of, and how they die
5	Motion and Energy at Play (OL)	002286637X	T	44	Explores the physics and forces that are used in three popular sports - bicycling, skateboarding, and in-line skating
5	Life on a Space Station (B)	0022865063	V	46	Discusses life aboard the International Space Station, from scientific research to everyday tasks
6	Microwaves and Cooking (A)	0022865330	V	58	Discusses how Percy Spencer's accidental discovery led to the invention of the microwave oven
6	The Story of DNA	0022866485	S	50	Outlines the advances made in genetics since the time of Gregor Mendel to the cracking of the DNA code and its future applications
6	Gregory Mendel (OL)	0022866493	W	62	Explains the life and work of Gregor Mendel and how his pea experiments led to the science of genetics

## FOSS MODULE: Grades 5 - 6

<b>VARIABLES</b>	Investigations focus on the discovery of relationships through controlled experimentation involving several different strands of physical science.
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### SUGGESTED LEVELED READERS

GRADE	LEVELED READER TITLE	ISBN (6 packs)	GR LEVEL	BENCH MARK	READER DESCRIPTION
4	A Chemist in the Kitchen (A)	0022866175	L	28	Introduces chemistry through simple kitchen experiments
5	Motion and Energy at Play (OL)	002286637X	T	44	Explores the physics and forces that are used in three popular sports - bicycling, skateboarding, and in-line skating
5	Global Weather (B)	0022866337	W	46	Focuses on factors that affect global climate and weather patterns and conditions
5	Plastics (B)	0022865136	V	46	Explores the history and development of one of the most versatile materials - plastics
5	Amusement Park Rides (B)	0022866361	W	46	Explores Newton's three laws of motion through the use of amusement park rides
6	DNA Fingerprinting	0022866515	Y	70	Explores DNA fingerprinting and how it is used as a tool to solve crimes and to further scientific, medical, and historical research
6	Skates, Bikes, and Rockets	0022866612	S	50	Explores Newton's three laws of motion
6	How Do Toys Work? (OL)	0022866620	W	62	Explores Sir Isaac Newton's three laws of motion to explain how toys work