

TITLE	MA STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY
Alexander Graham Bell * ISBN 0022858679 6 PK ISBN 0022865810	Life # 6	K	490	Alexander Graham Bell describes the life and inventions of Alexander Graham Bell. It explains how Bell applied scientific ideas to invent the telephone. Basic information about sound and how it travels are also included.
All About Magnets ISBN 0022846514 6 PK ISBN 0022864385	Physical # 1, Physical # 3, Physical # 4, Tech/Eng # 1.2	M	580	All About Magnets describes properties of magnets and Earth's magnetic field. It also explains that magnets are used for navigation, in computer disks, in maglev trains, and in the space shuttle.
Animal Parents ISBN 0022846328 6 PK ISBN 0022864210	Earth/Space # 5, Life # 1, Life # 3, Life # 4, Life # 8	H	610	Animal Parents describes how various animals care for their young. A variety of fish, birds, reptiles and mammals are discussed in this book.
Animals in Danger ISBN 0022859357 6 PK ISBN 0022865586	Life # 8	G	440	Animals in Danger identifies factors that endanger animals, such as pollution and destruction of habitat. Measures that can be taken to help endangered animals are also described.
Apple Trees ISBN 002284631X 6 PK ISBN 0022864202	Earth/Space # 4, Earth/Space # 5, Life # 1, Life # 3, Life # 7, Life # 8	L	640	Apple Trees describes how apple trees change with the seasons, identifies the functions of roots, stems, and leaves, describes the process of photosynthesis, and discusses the life cycle of an apple tree.
Beyond the Sky * ISBN 0022858644 6 PK ISBN 0022865721	Earth/Space # 1, Earth/Space # 2, Earth/Space # 4, Earth/Space # 5, Life # 6, Physical # 3, Tech/Eng # 2.1	J	460	Beyond the Sky describes stars, including the Sun, and the solar system. Apparent movement of the Sun is related to the motion of Earth. Stars, tools used to observe stars, and phases of the moon are also explained.

* - Also available in an English Language Learner version

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Bicycle Metals ISBN 0022858733 6 PK ISBN 0022865799	Physical # 2, Tech/Eng # 1.1, Tech/Eng # 1.2	K	460	<i>Bicycle Metals</i> describes the properties of metals, explains how mixtures of metals are used, and discusses how the qualities of different metals make them well-suited for different purposes.
Big Orange Pumpkins ISBN 002284628X 6 PK ISBN 0022864180	Earth/Space # 4, Life # 1, Life # 3, Life # 7, Life # 8	H	400	<i>Big Orange Pumpkins</i> describes the functions of different plant parts, identifies the steps in a pumpkin plant's life cycle, and explains ways that humans use pumpkins.
Day and Night ISBN 0022858563 6 PK ISBN 0022865713	Earth/Space # 4, Earth/Space # 5, Physical # 3	E	110	<i>Day and Night</i> explains how a globe is used to model Earth, and how Earth's motion relative to the Sun causes day and night.
Desert Life ISBN 0022858539 6 PK ISBN 0022865616	Life # 8	E	390	<i>Desert Life</i> describes the climate in desert areas, identifies forms of life found in deserts, and mentions adaptations of desert plants and desert animals.
Different Kinds of Land ISBN 0022858547 6 PK ISBN 0022865640	Earth/Space # 1	G	320	<i>Different Kinds of Land</i> identifies different landforms, such as mountains, valleys, plains, forests and deserts.
Electricity ISBN 0022858598 6 PK ISBN 0022865802	No correlation	E	270	<i>Electricity</i> classifies electricity as a form of energy, explains how electricity is used in the home, and describes how batteries are used.

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Fast Changes on Earth ISBN 0022858695 6 PK ISBN 0022865667	Earth/Space # 3	L	480	<i>Fast Changes on Earth</i> describes events that rapidly change Earth, such as floods, tornadoes, earthquakes, land slides, and volcanoes. Photos illustrate each of these events.
Finding Fossils * ISBN 0022846395 6 PK ISBN 0022864288	Life # 5	J	750	<i>Finding Fossils</i> explains what scientists can learn by studying fossils, how fossils are found, and how scientists apply knowledge about fossils to the study of today's world.
From Seed to Tree * ISBN 0022846298 6 PK ISBN 0022864199	Life # 1, Life # 3, Life # 7	J	480	<i>From Seed to Tree</i> describes the life cycle of an apple tree, identifies seasonal changes apple trees undergo, and describes ways that people use apples.
From Tadpole to Frog ISBN 0022846344 6 PK ISBN 0022864237	Earth/Space # 5, Life # 3, Life # 4, Life # 7	L	560	<i>From Tadpole to Frog</i> describes the life cycle of a frog, including the changes that occur when a tadpole changes to become a frog. Chapter 7 includes some fun facts about frogs.
Gases Matter * ISBN 0022858652 6 PK ISBN 0022865756	Earth/Space # 1, Earth/Space # 2, Life # 1, Life # 8, Physical # 1, Physical # 2	H	500	<i>Gases Matter</i> begins by describing solids, liquids, and gases. The properties of gases are described in detail. The carbon and nitrogen cycle are also discussed.
Get Moving! ISBN 002284645X 6 PK ISBN 0022864334	Physical # 4, Tech/Eng # 2.1	H	460	<i>Get Moving</i> describes forces, such as gravity and friction, which affect the motion of objects. Tools and machines used to change motion and apply forces are also described.

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Hot Air Balloons ISBN 0022858725 6 PK ISBN 0022865764	Physical # 2, Physical # 3	L	430	<i>Hot Air Balloons</i> describes the history of hot air balloons, how a hot air balloon works, and the role of heat energy in the function of a hot air balloon.
Journey into Space ISBN 0022858717 6 PK ISBN 002286573X	Physical # 3	K	480	<i>Journey into Space</i> explores the history of space flight beginning with the Wright brothers, and describes modern space exploration, including satellites, Moon walks, space shuttles, space probes, and the International Space Station.
Let's Recycle! * ISBN 0022846433 6 PK ISBN 0022864318	Tech/Eng # 1.2	K	650	<i>Let's Recycle</i> describes dumps and landfills, defines reducing and reusing, and explains the process of recycling. Actions that individuals can take to promote recycling are also described.
Make a Pizza * ISBN 0022858660 6 PK ISBN 0022865780	Physical # 2	J	500	<i>Make a Pizza</i> describes the changes that pizza ingredients undergo as they are mixed and cooked. Ingredients are classified as solids or liquids, and the process of boiling is described.
Matter and Change ISBN 0022858571 6 PK ISBN 0022865748	Earth/Space # 2, Physical # 2	G	390	<i>Matter and Change</i> defines matter and describes everyday examples of solids, liquids, and gases. Changes in matter caused by heating and cooling are also described.
Minerals ISBN 0022846379 6 PK ISBN 0022864261	Physical # 1, Tech/Eng # 1.1, Tech/Eng # 1.2	M		<i>Minerals</i> describes the properties of minerals and the rock cycle. Common minerals are pictured and described. Properties of minerals, such as hardness, are described.
Mix It Up ISBN 002285858X 6 PK ISBN 0022865772	Physical # 2	F	210	<i>Mix It Up</i> describes mixtures and solutions. Everyday examples of mixtures, such as trail mix, and solutions, such as salt water, are shown.

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Push or Pull? * ISBN 0022846468 6 PK ISBN 0022864342	Physical # 4, Tech/Eng # 2.1	J	350	<i>Push or Pull?</i> defines force as a push or pull, explains the role of forces in changing motion, and depicts everyday examples of forces changing motion.
Saving Animals ISBN 0022859365 6 PK ISBN 0022865594	Life # 8	M	660	<i>Saving Animals</i> defines the term endangered and identifies some endangered animals, such as California sea otters, manatees, green sea turtles, bighorn sheep, and California condors. It also identifies steps that are being taken to save each of these animals.
Soil ISBN 0022846352 6 PK ISBN 0022864245	Earth/Space # 1, Life # 8, Tech/Eng # 1.2	I	470	<i>Soil</i> differentiates soil and dirt and describes the layers of soil. It also identifies soil as a resource and describes ways that soil can be conserved.
The Big Splash! * ISBN 0022858628 6 PK ISBN 0022865659	Earth/Space # 1, Life # 8	J	500	<i>The Big Splash</i> explains why Earth is called the water planet, describes the zones of the ocean and pictures and describes forms of life found in each part of the ocean.
The Camera's Eye ISBN 0022861661 6 PK ISBN 0022865829	Life # 6, Tech/Eng # 2.1	L	620	<i>The Camera's Eye</i> compares the structure of the human eye and a camera, explains how a camera works, describes the history of the camera, and discusses how modern digital cameras work.
Tracking Weather ISBN 0022858709 6 PK ISBN 0022865691	Earth/Space # 3, Tech/Eng # 2.1	L	540	<i>Tracking Weather</i> explains how weather was forecast long ago, tools that are used to forecast weather, and technology used to learn about weather. Chapter 6 describes how scientific models are used in weather forecasting.

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TITLE	MA STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY
Two Kinds of Forests * ISBN 002285861X 6 PK ISBN 0022865624	Earth/Space # 3., Life # 6, Life # 7, Life # 8	J	500	<i>Two Kinds of Forests</i> compares a woodland forest to a rainforest. The climates in which each type of forest is found are described, seasonal changes in forests are pictured, and adaptations such as migration and hibernation are defined.
Wait and See * ISBN 0022846336 6 PK ISBN 0022864229	Earth/Space # 5, Life # 3	J	430	<i>Wait and See</i> describes the life cycle of a bird, a butterfly, a frog, and a sea turtle.
Water for Life ISBN 0022858555 6 PK ISBN 0022865675	Earth/Space # 1, Earth/Space # 4, Earth/Space # 5, Life # 1, Life # 8	G	290	<i>Water for Life</i> identifies the importance of water and describes the water cycle. Different forms of precipitation, such as hail and sleet are described.
Water Habitats ISBN 0022858687 6 PK ISBN 0022865632	Earth/Space # 1, Life # 8	L	470	<i>Water Habitats</i> describes the physical characteristics of oceans, lakes, ponds, river, streams, and wetlands and the living things found in each.
What Do Clouds Tell Us? * ISBN 0022858636 6 PK ISBN 0022865683	Earth/Space # 3, Earth/Space # 4	J	450	<i>What Do Clouds Tell Us?</i> describes how clouds form, identifies different types of clouds, and identifies the weather associated with each type of cloud.

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Massachusetts Science and Technology/Engineering Curriculum Framework

Standard**Earth and Space Science, Grade 2****Earth's Materials**

Earth/Space # 1

Recognize that water, rocks, soil, and living organisms are found on the earth's surface.

Earth/Space # 2

Understand that air is a mixture of gases that is all around us and that wind is moving air.

The Weather

Earth/Space # 3

Describe the weather changes from day to day and over the seasons.

The Sun as a Source of Light and Heat

Earth/Space # 4

Recognize that the sun supplies heat and light to the earth and is necessary for life.

Periodic Phenomena

Earth/Space # 5

Identify some events around us that have repeating patterns, including the seasons of the year, day and night.

Standard**Life Science (Biology), Grade 2****Characteristics of Living Things**

Life # 1

Recognize that animals (including humans) and plants are living things that grow, reproduce, and need food, air, and water.

Life # 2

Differentiate between living and nonliving things. Group both living and nonliving things according to the characteristics that they share.

Life # 3 Recognize that plants and animals have life cycles, and that life cycles vary for different living things.

Heredity

Life # 4 Describe ways in which many plants and animals closely resemble their parents in observed appearance.

Evolution and Biodiversity

Life # 5 Recognize that fossils provide us with information about living things that inhabited the earth years ago.

Living Things and Their Environment

Life # 6 Recognize that people and other animals interact with the environment through their senses of sight, hearing, touch, smell, and taste.

Life # 7 Recognize changes in appearance that animals and plants go through as the seasons change.

Life # 8 Identify the ways in which an organism's habitat provides for its basic needs (plants require air, water, nutrients, and light; animals require food, water, air, and shelter).

Standard

Physical Sciences (Chemistry and Physics), Grade 2

Observable Properties of Objects

Physical # 1 Sort objects by observable properties such as size, shape, color, weight, and texture.

States of Matter

Physical # 2 Identify objects and materials as solid, liquid, or gas. Recognize that solids have a definite shape and that liquids and gases take the shape of their container.

Position and Motion of Objects

Physical # 3 Describe the various ways that objects can move, such as in a straight line, zigzag, back-and-forth, round-and-round, fast, and slow.

Physical # 4 Demonstrate that the way to change the motion of an object is to apply a force (give it a push or a pull). The greater the force, the greater the change in the motion of the object.

Physical # 5

Recognize that under some conditions, objects can be balanced.

Standard**Technology/Engineering, Grade 2****Materials and Tools**

Tech/Eng # 1

Identify and describe characteristics of natural materials (e.g., wood, cotton, fur, wool) and human-made materials (e.g., plastic, Styrofoam).

Tech/Eng # 2

(Identify and explain some possible uses for natural materials (e.g., wood, cotton, fur, wool) and human-made materials (e.g., plastic, Styrofoam).

Tech/Eng # 3

Identify and describe the safe and proper use of tools and materials (e.g., glue, scissors, tape, ruler, paper, toothpicks, straws, spools) to construct simple structures.

Engineering Design

Tech/Eng # 4

Identify tools and simple machines used for a specific purpose, e.g., ramp, wheel, pulley, lever.

Tech/Eng # 5

Describe how human beings use parts of the body as tools (e.g., teeth for cutting, hands for grasping and catching), and compare their use with the ways in which animals use those parts of their bodies.