

TITLE	NJ STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
A Favorite Season ISBN 0022789731 6 PK ISBN 22793062	5.8.2.B.4.	D	90	<i>A Favorite Season</i> describes characteristics of each of the four seasons, and uses pictures to illustrate weather and activities associated with each season	spring summer winter
All About Animals ISBN 0022845917 6 PK ISBN 22863826	5.5.2.B.1., 5.10.2.A.1.	C	380	<i>All About Animals</i> describes characteristics that help animals survive in their specific habitats. Photo are used to illustrate each of the animals and their habitats.	blubber hoof hooves
All Kinds of Plants ISBN 0022789669 6 PK ISBN 22792996	5.5.2.B.1., 5.10.2.B.1.	B	BR	<i>All Kinds of Plants</i> uses simple words and pictures to describe and compare plants. This book also identifies some plants that are commonly used by people as food.	food plant
America, The Beautiful ISBN 0022845925 6 PK ISBN 22863834	5.8.2.D.1.	A	230	<i>America the Beautiful</i> introduces the terms mountain and canyon in a simple rhyming text. These landforms are shown in photos from the point of view of a soaring eagle.	canyon mountain
Animals Grow ISBN 002281079X 6 PK ISBN 22827137	5.3.4.C.1., 5.5.2.C.1.	D	210	<i>Animals Grow</i> shows the growth and development of animals such as giraffes and bears. The life cycle of a monarch butterfly is described with the words "grow" and "change," and a three-photo sequence shows the steps of butterfly's life cycle.	change grow
Animals on the Move ISBN 0022845895 6 PK ISBN 22863818	5.7.2.A.1., 5.10.2.A.1.	B	180	<i>Animals on the Move</i> uses photos to show how different kinds of animals move. Crawling, running, leaping, flying, and swimming are each shown.	crawl fly leap

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At the Petting Zoo ISBN 0022789650 6 PK ISBN 22792988	This book provides an introduction to standard 5.6.2.A.1.	C	NP	<i>At the Petting Zoo</i> uses illustrations and single-word descriptions to identify differences among animals.	smooth rough
Clouds ISBN 002281082X 6 PK ISBN 22827161	5.8.2.B.1., 5.8.2.B.2., 5.8.2.B.3.	C	150	<i>Clouds</i> describes differences among clouds and uses photos to illustrate different types of clouds. This books also identifies clouds as the source of rain and snow, and asks students to consider whether fog is a cloud.	cloud rain snow
From Seed to Sunflower ISBN 0022845879 6 PK ISBN 22863788	5.5.2.C.1.	C	320	<i>From Seed to Sunflower</i> shows and describes the life cycle of a sunflower plant.	flower seed sunflower
Good Morning ISBN 0022784594 6 PK ISBN 22792880	5.3.4.C.1., 5.9.2.A.2.	B	BR	<i>Good Morning</i> shows a variety of animals in the morning and in the evening. Students are asked to think about things that typically occur in the morning.	morning
I Like Ice ISBN 0022846034 6 PK ISBN 002286394X	5.6.2.A.3., 5.8.2.B.1.	B	210	<i>I Like Ice</i> explains that water is a solid when it is cold and a liquid when it gets warmer. The terms frozen and melts are used to describe changes in state.	frozen icicle melt
Land High and Low ISBN 0022810811 6 PK ISBN 22827153	5.8.2.D.1.	C	150	<i>Land High and Low</i> describes mountains, valleys, canyons, and shows the ocean shore. Activities associated with each landform, such as hiking and sledding, are also mentioned.	canyon mountain valley

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TITLE	NJ STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
Made from Clay ISBN 0022845992 6 PK ISBN 22863915	5.6.2.A.1.	B	260	<i>Made From Clay</i> identifies clay as an earth material and shows the many ways that people use clay.	clay mask pot
Making Sounds ISBN 0022820272 6 PK ISBN 22869174	5.4.2.B.1., 5.7.2.B.1.	C	70	<i>Let's Make Sounds</i> shows several different ways that students can generate sounds. Photographs show students using recycled materials as musical instruments.	sound
Matter Changes ISBN 0022846042 6 PK ISBN 22863958	5.6.2.A.3., 5.8.2.B.2.	C	220	<i>Matter Changes</i> describes matter, explains that matter is made up of tiny parts, and shows the three common states of matter. The role of heat in changes of state is also identified.	gas liquid solid
Melting Snow ISBN 0022846026 6 PK ISBN 22863931	5.1.4.A.1., 5.6.2.A.3.	A	40	<i>Melting Snow</i> describes the change of state from solid to liquid that occurs when sunlight warms snow.	melting puddle Sun
Our Desert Home ISBN 0022789723 6 PK ISBN 22793054	5.5.2.B.1., 5.10.2.A.1.	C	BR	<i>Our Desert Home</i> uses illustrations to identify the plants, insects, reptiles, birds, and mammals that live in a desert habitat.	bird reptile mammal
Our Land ISBN 0022845933 6 PK ISBN 22863842	5.8.2.D.1.	B	330	<i>Our Land</i> uses photographs to illustrate landforms and habitats, such as mountains, forests, valleys, deserts, rivers, and oceans.	land ocean valley

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Plant Parts ISBN 0022789677 6 PK ISBN 22793003	5.1.4.A.1., 5.10.2.A.1.	C	270	Plant Parts identifies roots, stems, leaves, flowers, cones, and fruits as plant parts.	fruit root stem
Plants Grow ISBN 0022810781 6 PK ISBN 22827129	5.5.2.A.1., 5.9.2.A.1., 5.10.2.A.1.	B	BR	Plants Grow identifies water, light, and soil as basic needs of plants.	soil
Recycle, Reduce, Reuse ISBN 0022845941 6 PK ISBN 22863850	5.10.2.B.1.	C	340	Recycle, Reduce, Reuse uses brief explanations and photos to define each of these methods of protecting the environment.	recycle reduce reuse
Rocks ISBN 0022810803 6 PK ISBN 22827145	5.6.2.A.1., 5.8.2.A.1.	C	20	Rocks compares the colors, sizes, and textures of a variety of rocks.	rock
Seasons ISBN 002284595X 6 PK ISBN 22863869	5.3.4.C.1., 5.8.2.B.3., 5.8.2.B.4.	A	50	Seasons illustrates the weather, clothing, and activities associated with each of the four seasons.	season weather
Small Plants Tall Plants ISBN 0022845852 6 PK ISBN 22863761	5.3.4.A.3.a.	A	310	Small Plants, Tall Plants describes the characteristics of some types of plants and points out differences among plants.	moss redwood sunflower

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TITLE	NJ STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
Soft or Hard? ISBN 0022845984 6 PK ISBN 22863893	5.6.2.A.1.	A	BR	<i>Soft or Hard?</i> defines matter and describes different textures associated with solid matter. Examples of objects with different textures are identified.	matter solid
That Night Sky ISBN 0022810838 6 PK ISBN 002282717X	5.9.2.A.2., 5.9.2.B.1., 5.9.2.C.1.	C	80	<i>The Night Sky</i> describes objects that are visible in the night sky, including the Moon and stars. Patterns of stars and phases of the Moon are pictures.	moon stars
Toys that Move ISBN 0022789715 6 PK ISBN 22793046	5.7.2.A.2.	C	330	<i>Toys That Move</i> uses toys to illustrate the fact that pushes and pulls (forces) change the motion of objects.	push pull
Water Moves ISBN 0022810862 6 PK ISBN 22827218	5.6.2.A.3.	C	BR	<i>Water Moves</i> uses simple rhyming text to identify some of the properties of solid and liquid water.	water
What Can a Magnet Do? ISBN 0022846018 6 PK ISBN 22863923	5.1.4.A.1., 5.7.2.A.2.	C	260	<i>What Can a Magnet Do?</i> explains that magnets can push or pull objects and shows some applications of magnets.	magnet pull push
What is the Weather? ISBN 0022845968 6 PK ISBN 22863877	5.1.4.B.1., 5.8.2.B.3.	B	BR	<i>What Is the Weather?</i> uses the terms sunny, rainy, windy, cloudy, and snowy to describe the weather.	cloudy weather windy

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TITLE	NJ STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
What Kind of Animal Are You? ISBN 0022845887 6 PK ISBN 22863796	5.5.2.B.1.	A	BR	<i>What Kind of Animal Are You?</i> points out characteristics of birds, fish, and mammals, and leads students to the conclusion that humans are mammals.	feather mammal scales
What Will I Wear Today? ISBN 0022845976 6 PK ISBN 22863885	5.8.2.B.3., 5.8.2.B.4.	C	170	<i>What Will I Wear Today?</i> shows clothing associated with each season of the year.	fall spring summer winter
What's in the Soil? ISBN 0022789707 6 PK ISBN 22793038	5.1.4.A.1., 5.1.4.A.2., 5.8.2.A.1.	C	BR	<i>What's In the Soil?</i> identifies living and nonliving things found in soil.	soil
Where Do Plants Live? ISBN 0022845860 6 PK ISBN 002286377X	5.5.2.B.1.	B	350	<i>Where Do Plants Live?</i> shows the types of plants associated with different environments.	dry plant wet
Working with Clay ISBN 0022810854 6 PK ISBN 22827196	5.10.2.B.1.	G	510	<i>Working with Clay</i> shows that clay is an earth material, and sequences the steps in making a useful product with clay.	clay
Working with Wood ISBN 0022810846 6 PK ISBN 22827188	5.10.2.B.1.	E	290	<i>Working with Wood</i> explains that wood comes from trees and describes the processes used to make useful products with wood.	wood

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New Jersey Core Curriculum Standards for Science

STANDARD 5.1

(SCIENTIFIC PROCESSES) ALL STUDENTS WILL DEVELOP PROBLEM-SOLVING, DECISION-MAKING AND INQUIRY SKILLS, REFLECTED BY FORMULATING USABLE QUESTIONS AND HYPOTHESES, PLANNING EXPERIMENTS, CONDUCTING SYSTEMATIC OBSERVATIONS, INTERPRETING AND ANALYZING DATA, DRAWING CONCLUSIONS, AND COMMUNICATING RESULTS.

5.1.4.A.**Habits of Mind**

5.1.4.A.1.

Raise questions about the world around them and be willing to seek answers through making careful observations and experimentation.

5.1.4.A.2.

Keep records that describe observations, carefully distinguish actual observations from ideas and speculations, and are understandable weeks and months later.

5.1.4.A.3.

Recognize that when a science investigation is replicated, very similar results are expected.

5.1.4.A.4.

Know that when solving a problem it is important to plan and get ideas and help from other people.

5.1.4.B.**Inquiry and Problem Solving**

5.1.4.B.1.

Develop strategies and skills for information-gathering and problem-solving, using appropriate tools and technologies.

5.1.4.B.2.

Identify the evidence used in an explanation.

5.1.4.C.**Safety**

5.1.4.C.1.

Recognize that conducting science activities requires an awareness of potential hazards and the need for safe practices.

5.1.4.C.2.

Understand and practice safety procedures for conducting science investigations.

STANDARD 5.2

(Science and Society) All students will develop an understanding of how people of various cultures have contributed to the advancement of science and technology, and how major discoveries and events have advanced science and technology.

5.2.4.A.**Cultural Contributions**

5.2.4.A.1.

Describe how people in different cultures have made and continue to make contributions to science and technology.

5.2.4.B.**Historical Perspectives**

5.2.4.B.1.

Hear, read, write, and talk about scientists and inventors in historical context.

STANDARD 5.3

(Mathematical Applications) All students will integrate mathematics as a tool for problem-solving in science, and as a means of expressing and/or modeling scientific theories.

5.3.4.A.**Numerical Operations**

5.3.4.A.1.

Determine the reasonableness of estimates, measurements, and computations of quantities when doing science.

5.3.4.A.2.

Recognize and comprehend the orders of magnitude associated with large and small physical quantities.

5.3.4.A.3.

Express quantities using appropriate number formats, such as:

5.3.4.A.3.a.

Integers.

5.3.4.A.3.b.

Fractions.

5.3.4.B.**Geometry and Measurement**

5.3.4.B.1.

Select appropriate measuring instruments based on the degree of precision required.

5.3.4.B.2.

Use a variety of measuring instruments and record measured quantities using the appropriate units.

5.3.4.C.**Patterns and Algebra**

5.3.4.C.1. Identify patterns when observing the natural and constructed world.

5.3.4.D. Data Analysis and Probability

5.3.4.D.1. Use tables and graphs to represent and interpret data.

STANDARD 5.4

(Nature and Process of Technology) All students will understand the interrelationships between science and technology and develop a conceptual understanding of the nature and process of technology.

5.4.2.A. Science and Technology

5.4.2.A.1. Indicators for this strand are introduced at a higher grade level.

5.4.2.B. Nature of Technology

5.4.2.B.1. Select and use simple tools and materials to complete a task.

5.4.2.C. Technological Design

5.4.2.C.1. Make a plan in order to design a solution to a problem.

5.4.2.C.2. Describe a toy or other familiar object as a system with parts that work together.

STANDARD 5.5

(Characteristics of Life) All students will gain an understanding of the structure, characteristics, and basic needs of organisms and will investigate the diversity of life.

5.5.2.A. Matter, Energy, and Organization in Living Systems

5.5.2.A.1. Investigate the basic needs of humans and other organisms.

5.5.2.A.2. Compare and contrast essential characteristics that distinguish living things from nonliving things.

5.5.2.B. Diversity and Biological Evolution

5.5.2.B.1. Recognize that different types of plants and animals live in different parts of the world.

5.5.2.B.2. Recognize that some kinds of organisms that once lived on earth have completely disappeared.

5.5.2.C. **Reproduction and Heredity**

5.5.2.C.1. Recognize that humans and other organisms resemble their parents.

STANDARD 5.6

Chemistry) All students will gain an understanding of the structure and behavior of matter.

5.6.2.A. **Structure and Properties of Matter**

5.6.2.A.1. Sort objects according to the materials from which they are made or their physical properties, and give a rationale for sorting.

5.6.2.A.2. Use magnifiers to observe materials, then draw and describe what more can be seen using the tools.

5.6.2.A.3. Observe that water can be a liquid or a solid and can change from one form to the other.

5.6.2.B. **Chemical Reactions**

5.6.2.B.1. Indicators for this strand are introduced at a higher grade level.

STANDARD 5.7

(Physics) All students will gain an understanding of natural laws as they apply to motion, forces, and energy transformations.

5.7.2.A. **Motion and Forces**

5.7.2.A.1. Distinguish among the different ways objects can move such as:

5.7.2.A.1.a. fast and slow.

5.7.2.A.1.b. in a straight line.

5.7.2.A.1.c. in a circular path.

5.7.2.A.1.d.

back and forth.

5.7.2.A.2.

Show that the position and motion of an object can be changed by pushing or pulling the object.

5.7.2.B.**Energy Transformations**

5.7.2.B.1.

Demonstrate that sound can be produced by vibrating objects.

STANDARD 5.8**(Earth Science) All students will gain an understanding of the structure, dynamics, and geophysical systems of the earth.****5.8.2.A.****Earth's Properties and Materials**

5.8.2.A.1.

Observe and describe rocks and soil.

5.8.2.B.**Atmosphere and Weather**

5.8.2.B.1.

Identify the sources and uses of water.

5.8.2.B.2.

Recognize that water can disappear (evaporate) and collect on cold surfaces (condense).

5.8.2.B.3.

Describe current weather conditions and recognize how those conditions affect our daily lives.

5.8.2.B.4.

Describe daily and seasonal changes and patterns in the weather.

5.8.2.C.**Processes that Shape the Earth**

5.8.2.C.1.

Indicators for this strand are introduced at a higher grade level.

5.8.2.D.**How We Study the Earth**

5.8.2.D.1.

Record observations that describe the features of the natural world in their local environment.

STANDARD 5.9**(Astronomy & Space Science) All students will gain an understanding of the origin, evolution, and structure of the universe.**

5.9.2.A. Earth, Moon, Sun System

5.9.2.A.1. Recognize that the sun supplies light and heat to the Earth.

5.9.2.A.2. Observe the patterns of day and night and the movements of the shadows of an objects on the Earth during the course of a day.

5.9.2.B. Solar System

5.9.2.B.1. Recognize that the sun can only be seen during the day, but the moon can be seen sometimes at night and sometimes during the day.

5.9.2.C. Stars

5.9.2.C.1. Observe that stars are many, scattered, and different in brightness.

5.9.2.C.2. Observe that the position of the stars, with respect to each other (constellations) is unchanging

5.9.2.D. Galaxies and Universe

Indicators for this strand are introduced at a higher grade level.

STANDARD 5.10 (Environmental Studies) All students will develop an understanding of the environment as a system of interdependent components affected by human activity and natural phenomena.

5.10.2.A. Natural Systems and Interactions

5.10.2.A.1. Associate organisms' basic needs with how they meet those needs within their surroundings.

5.10.2.B. Human Interactions and Impact

5.10.2.B.1. Identify various needs of humans that are supplied by the natural or constructed environment.