

TITLE	CT STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
<b>A Trip Through the Solar System *</b> ISBN 0022846662 6 PK ISBN 0022864539	3.B.INQ.1, 3.B.INQ.7	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
<b>Amazing Earth</b> ISBN 0022846654 6 PK ISBN 0022864520	3.B.INQ.7, 3.4.B.7	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
<b>Amazing Invertebrates *</b> ISBN 0022858784 6 PK ISBN 0022865837	3.B.INQ.2, 3.B.INQ.7, 3.2.B.3, 3.2.B.4	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
<b>Animal Life Cycles *</b> ISBN 0022858792 6 PK ISBN 0022865861	3.B.INQ.7, 3.2.B.3, 3.2.B.4	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
<b>Bad Weather</b> ISBN 0022858768 6 PK ISBN 0022865942	3.B.INQ.1, 3.B.INQ.6, 3.B.INQ.7	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

\* - Also available in an English Language Learner version

TITLE	CT STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
<b>California Condor</b> ISBN 0022846581 6 PK ISBN 0022864458	3.B.INQ.7, 3.2.B.3	L	640	<b>California Condor</b> 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
<b>Chocolate</b> ISBN 0022846719 6 PK ISBN 0022864571	3.B.INQ.1, 3.B.INQ.7	O	700	<b>Chocolate</b> explores the history of chocolate, resources required to make chocolate commercially, and the manufacturing process used to make chocolate.	liquid mixture solid
<b>Claws and Wings and Other Neat Things</b> ISBN 0022859438 6 PK ISBN 0022865845	3.B.INQ.1, 3.B.INQ.2, 3.B.INQ.7, 3.2.B.3, 3.2.B.4	Q	620	<b>Claws and Wings and Other Neat Things</b> 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
<b>Cool Cats</b> ISBN 0022846522 6 PK ISBN 0022864393	3.B.INQ.1, 3.B.INQ.7, 3.2.B.3	L	510	<b>Cool Cats</b> describes the characteristics of different members of the cat family. Similarities and difference between different types of cats are discussed.	domestic: predator savanna
<b>Coral Reefs *</b> ISBN 0022846565 6 PK ISBN 0022864431	3.B.INQ.7, 3.2.B.4	N	750	<b>Coral Reefs</b> 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
<b>Electrical Inventions</b> ISBN 002285939X 6 PK ISBN 0022866019	3.B.INQ.2, 3.B.INQ.7, 3.4.B.7	P	700	<b>Electrical Inventions</b> describes inventions, such as the electric light and the electric motor. Information about inventors and current electrical innovations are also included.	circuit conductor invention

\* - Also available in an English Language Learner version

TITLE	CT STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
<b>Energy for Your Body *</b> ISBN 0022846735 6 PK ISBN 0022864598	3.B.INQ.7	N	780	<b>Energy for Your Body</b> 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.	<b>carbohydrate mineral protein</b>
<b>Exploring Mars</b> ISBN 0022846670 6 PK ISBN 0022864547	3.B.INQ.1, 3.B.INQ.7	P	730	<b>Exploring Mars</b> explains how humans have learned about Mars throughout history. Technology, such as orbiters and landers, which advance science are also described.	<b>astronomer lander orbiter</b>
<b>Fossil Hunters</b> ISBN 0022861696 6 PK ISBN 0022865926	3.B.INQ.2, 3.B.INQ.7, 3.B.INQ.8, 3.3.B.6	I	610	<b>Fossil Hunters</b> describes how fossils are formed, what paleontologists can learn by studying fossils, and tools that fossil hunters use.	<b>dinosaur fossil paleontologist</b>
<b>Gems *</b> ISBN 0022858814 6 PK ISBN 0022865934	3.B.INQ.1, 3.B.INQ.3, 3.B.INQ.7	N	540	<b>Gems</b> describes gems and minerals, describes how to grow crystals, and identifies the many uses of diamonds.	<b>crystal mineral precious</b>
<b>Glassmaking</b> ISBN 0022846689 6 PK ISBN 0022864555	3.B.INQ.7	M	670	<b>Glassmaking</b> identifies the resources used to produce glass, describes the process of manufacturing glass, and includes a timeline of the history of glass.	<b>heat hollow solid</b>
<b>Growing a Garden</b> ISBN 0022858741 6 PK ISBN 0022865853	3.B.INQ.1, 3.B.INQ.3, 3.B.INQ.4, 3.B.INQ.5, 3.B.INQ.6, 3.B.INQ.7	I	400	<b>Growing a Garden</b> 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.	<b>bulb fertilizer photosynthesis</b>

\* - Also available in an English Language Learner version

TITLE	CT STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
<b>How Earthquakes &amp; Volcanoes Shape the Earth *</b>  ISBN 0022858806 6 PK ISBN 002286590X	3.B.INQ.7, 3.3.B.6	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.	<b>earthquake</b> <b>fault</b> <b>volcano</b>
<b>Living Communities</b>  ISBN 002285875X 6 PK ISBN 0022865888	3.B.INQ.7, 3.2.B.3	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.	<b>community</b> <b>ecosystem</b> <b>food web</b>
<b>Machines That Build</b>  ISBN 0022859454 6 PK ISBN 0022866000	3.B.INQ.7	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.	<b>compound</b> <b>machine</b> <b>simple machine</b> <b>work</b>
<b>Mighty Metals</b>  ISBN 0022858776 6 PK ISBN 0022865969	3.B.INQ.7	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.	<b>alloy</b> <b>metal</b> <b>ore</b>
<b>Moving Fast</b>  ISBN 0022861718 6 PK ISBN 0022865993	3.B.INQ.7, 3.B.INQ.10, 3.2.B.3, 3.2.B.4	J	700	<i>Moving Fast</i> describes and compares the speeds of the fastest-moving animals, cars, trains, planes and people.	<b>distance</b> <b>measure</b> <b>speed</b>
<b>Natural Defenses *</b>  ISBN 0022846530 6 PK ISBN 0022864407	3.B.INQ.7, 3.2.B.3, 3.2.B.4	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.	<b>defense</b> <b>poison</b> <b>spines</b>

\* - Also available in an English Language Learner version

TITLE	CT STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
<b>Predator and Prey</b> ISBN 002286167X 6 PK ISBN 0022865896	3.B.INQ.7, 3.2.B.3	O	680	<b>Predators and Prey</b> describes the predator/prey relationship, and identifies adaptations that enhance predators' ability to hunt and preys' ability to stay safe.	camouflage defense predator
<b>Sun Stories</b> ISBN 002284662x 6 PK ISBN 0022864482	3.B.INQ.7	L	540	<b>Sun Stories</b> 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
<b>The Sounds of Music</b> ISBN 0022846727 6 PK ISBN 002286458X	3.B.INQ.7	L	780	<b>The Sounds of Music</b> 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
<b>The Way Eyes See It *</b> ISBN 002284676X 6 PK ISBN 0022864636	3.B.INQ.7, 3.2.B.3, 3.2.B.4	N	690	<b>The Way Eyes See It</b> describes the human eye and compares it to several kinds of animal eyes.	cornea iris lens
<b>Volcano!</b> ISBN 0022861688 6 PK ISBN 0022865918	3.B.INQ.1, 3.B.INQ.7	O	650	<b>Volcano!</b> 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
<b>Watching the Weather *</b> ISBN 0022858822 6 PK ISBN 0022865950	3.B.INQ.1, 3.B.INQ.3, 3.B.INQ.4, 3.B.INQ.7, 3.B.INQ.9, 3.B.INQ.10	M	510	<b>Watching the Weather</b> defines weather, describes tools used to track weather, and includes instructions for setting up a weather station.	air pressure meteorologist rain gauge

\* - Also available in an English Language Learner version

TITLE	CT STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
<b>Water, Water Everywhere *</b> ISBN 0022846697 6 PK ISBN 0022864563	3.B.INQ.7, 3.1.B.2	N	730	<b>Water, Water, Everywhere</b> describes the three states in which water exists on Earth, explains the properties of water molecules, and describes the water cycle.	<b>gas matter water cycle</b>
<b>Wetlands</b> ISBN 0022846611 6 PK ISBN 0022864474	3.B.INQ.7, 3.2.B.4	O	670	<b>Wetlands</b> 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.	<b>ecosystem marsh swamp</b>
<b>What Makes You Special?</b> ISBN 0022858849 6 PK ISBN 002286587X	3.B.INQ.7	P	510	<b>What Makes You Special?</b> describes genetic traits, explains how traits are passed from parent to offspring, and illustrates the structure of DNA.	<b>DNA heredity trait</b>
<b>What Sinks and Floats</b> ISBN 0022858857 6 PK ISBN 0022865985	3.B.INQ.1, 3.B.INQ.3, 3.B.INQ.6, 3.B.INQ.7, 3.1.B.1	P	490	<b>What Sinks and Floats</b> defines matter and density. It also describes experiments about sinking and floating that students can carry out.	<b>density mass volume</b>
<b>What Your Body is Made Of *</b> ISBN 0022858830 6 PK ISBN 0022865977	3.B.INQ.7	N	540	<b>What Your Body Is Made Of</b> 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.	<b>cell element nutrient</b>

\* - Also available in an English Language Learner version

TITLE	CT STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
<b>Why We Need the Sun</b> ISBN 0022846646 6 PK ISBN 0022864512	3.B.INQ.7, 3.4.B.7	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.	<b>fossil fuel</b> <b>solar energy</b> <b>water cycle</b>
<b>Wind Energy</b> ISBN 0022846743 6 PK ISBN 002286461X	3.B.INQ.2, 3.B.INQ.7, 3.B.INQ.8, 3.4.B.7	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.	<b>generator</b> <b>wind</b> <b>wind farm</b>

\* - Also available in an English Language Learner version

## Connecticut Core Science Curriculum Framework

### STANDARD 3.B

#### INQ.

3.B.INQ.1

3.B.INQ.2

3.B.INQ.3

3.B.INQ.4

### Core Scientific Inquiry, Literacy and Numeracy

**Scientific Inquiry: Scientific inquiry is a thoughtful and coordinated attempt to search out, describe, explain and predict natural phenomena.**

Make observations and ask questions about objects, organisms and the environment.

Seek relevant information in books, magazines and electronic media.

Design and conduct simple investigations.

Employ simple equipment and measuring tools to gather data and extend the senses.

**INQ.****Scientific Literacy: Scientific literacy includes speaking, listening, presenting, interpreting, reading and writing about science.**

3.B.INQ.5

Use data to construct reasonable explanations.

3.B.INQ.6

Analyze, critique and communicate investigations using words, graphs and drawings.

3.B.INQ.7

Read and write a variety of science-related fiction and nonfiction texts.

**INQ.****Scientific Numeracy: Mathematics provides useful tools for the description, analysis and presentation of scientific data and ideas.**

3.B.INQ.8

Search the Web and locate relevant science information.

3.B.INQ.9

Use measurement tools and standard units (e.g., centimeters, meters, grams, kilograms) to describe objects and materials.

3.B.INQ.10

Use mathematics to analyze, interpret and present data.

**Core Themes, Content Standards and Expected Performances****3.1****Materials have properties that can be identified and described through the use of simple tests.**

3.1.B.1

Sort and classify materials based on properties such as dissolving in water, sinking and floating, conducting heat, and attracting to magnets.

3.1.B.2

Describe the effect of heating on the melting, evaporation, condensation and freezing of water.

**3.2****Organisms can survive and reproduce only in environments that meet their basic needs.**

3.2.B.3

Describe how different plants and animals are adapted to obtain air, water, food and protection in specific land habitats.

3.2.B.4

Describe how different plants and animals are adapted to obtain air, water, food and protection in water habitats.

**3.3**

**Earth materials have different physical and chemical properties.**

3.3.B.5

Describe the physical properties of rocks and relate them to their potential uses.

3.3.B.6

Relate the properties of rocks to the possible environmental conditions during their formation.

**3.4**

**Earth materials provide resources for all living things, but these resources are limited and should be conserved.**

3.4.B.7

Describe how earth materials can be conserved by reducing the quantities used, and by reusing and recycling materials rather than discarding them.