TITLE	NJ STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
Air Pollution ISBN 0022847170 6 PK ISBN 0022865039	5.6.8.B.1., 5.10.8.B.1., 5.10.8.B.2.	V	800	Causes of air pollution and the impact of air pollution on the atmosphere are described in *Air Pollution*. Also covered are the ozone layer, global warming, and strategies to prevent air pollution.	**acid rain** **atmosphere** **chlorofluorocarbon** **fossil fuel** **greenhouse effect**
Alloys: Metals in the Mix * ISBN 002284726X 6 PK ISBN 0022865128	5.2.8.A.2., 5.2.8.A.3., 5.2.8.B.1., 5.2.8.B.2., 5.6.8.A.3., 5.6.8.A.4.	U	840	***Alloys: Metals In the Mix*** introduces the definition of the term *alloy* and provides an in-depth look at the history of alloys. Technological applications of alloys and possible future uses of alloys are also described.	**alloy** **cermet** **converter** **cupronickel** **ore**
Amusement Park Rides ISBN 0022859152 6 PK ISBN 0022866361	5.2.8.A.2., 5.2.8.A.3., 5.7.8.A.1., 5.7.8.A.2., 5.7.8.A.3.	W	680	***Amusement Park Rides*** uses descriptions of rides to clarify the relationship between forces (gravity, friction, etc.) and motion (Newton's Laws). Careers that use science and technological design are addressed in Chapter 8, Meet a Roller Coaster Designer.	**force** **friction** **g-force** **gravity** **motion**
Animal Adaptations ISBN 0022847111 6 PK ISBN 0022864962	5.5.8.8.B.2., 5.10.8.A.1.	V	820	***Animal Adaptations*** describes adaptations that help animals find food, find mates, move, and stay safe. The relationship between adaptations and specific environments is also described.	**adaptation** **camouflage** **habitat** **mimicry** **niche**
Can Cells Grow Too Much? ISBN 0022847049 6 PK ISBN 002286489X	5.2.8.B.2., 5.5.8.8.A.2.	V	770	***Can Cells Grow Too Much?*** Gives a brief description of cell structure, chromosomes, and DNA. Normal mitosis and its function in the body is contrasted with uncontrolled cell division. Cancer, metastasis, causes of cancer, cancer prevention, and medical technologies used to treat cancer are also discussed.	**cancer** **cell chemotherapy** **mitosis** **tumor**
Carbon All Around * ISBN 0022847235 6 PK ISBN 002286508X	5.2.8.B.2., 5.6.8.A.1., 5.10.8.B.1.	U	870	***Carbon All Around*** begins with definitions of the terms element and matter and introduces carbon as one of the most plentiful elements on Earth. Uses of carbon, the carbon cycle, carbon dating, fossil fuels, and other technologies utilizing carbon are also discussed.	**carbon** **carbon cycle** **carbon dioxide** **graphite** **greenhouse effect**

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TITLE	NJ STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
Cells ISBN 0022847022 6 PK ISBN 0022864873	5.2.8.A.2., 5.2.8.A.3., 5.2.8.B.1., 5.2.8.B.2., 5.5.8.8.A.2., 5.10.8.B.1.	S		***Cells*** discusses the structure and function of cells and organelles and describes levels of organization in organisms. Chapter 4 gives an in-depth look at the history of cell research, and Chapter 5 describes applications of cell research.	**cell** **cell membrane** **cytoplasm** **mitochondria** **nucleus**
Costa Rican Rain Forests ISBN 0022847081 6 PK ISBN 0022864946	5.5.8.8.C.1., 5.8.8.D.1., 5.10.8.A.1., 5.10.8.A.2.	S	800	***Costa Rican Rain Forests*** explores relationships between living things in the Costa Rican rain forest. Adaptations of plants and animals are discussed. Costa Rica's commitment to conservation is highlighted in Chapter 1.	**adaptation** **life cycle** **metamorphosis** **predator** **vertebrate**
Discovering the Elements ISBN 0022847227 6 PK ISBN 0022865071	5.2.8.A.2., 5.2.8.A.3., 5.2.8.B.1., 5.2.8.B.2., 5.6.8.A.1., 5.6.8.A.4.	T	730	***Discovering the Elements*** describes the discovery and uses of some common elements. It also explains the organization of the periodic table, and the contributions of scientists who discovered and studied elements.	**atom** **atomic weight** **element** **periodic table** **property**
Earth's Heat ISBN 0022861750 6 PK ISBN 0022866310	5.2.8.A.1.a., 5.2.8.A.1.c., 5.2.8.A.3., 5.8.8.D.1	W	800	In ***Earth's Heat*****,** the structure of Earth is described and the relationship of Earth's internal energy to plate tectonics is identified. This book also explains how earthquakes and volcanoes are related to plate motion.	**Lava** **lithosphere** **magma** **mantle** **tectonic plates**
Earth's Oceans ISBN 0022861742 6 PK ISBN 0022866272	5.8.8.B.1., 5.8.8.D.1., 5.10.8.A.1., 5.10.8.B.1.	W	820	***Earth's Oceans*** provides a description of the physical and ecological features of oceans. The distinguishing characteristics of the Pacific, Atlantic, Indian, and Arctic Oceans are identified. The book also includes an in-depth description of coral reef ecosystems.	**abyssal plain** **continental shelf** **current** **plankton** **vent**
Earth's Water ISBN 0022861769 6 PK ISBN 0022864997	5.8.8.B.2., 5.10.8.B.1., 5.10.8.B.2.	S	860	***Earth's Water*** describes ways that water is used on Earth, as well as water pollution and water treatment. The water cycle is diagramed, and the processes of evaporation, condensation, and precipitation are described.	**condensation** **precipitation** **reservoir water cycle** **water treatment**

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TITLE	NJ STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
Genetics ISBN 0022859136 6 PK ISBN 0022866256	5.2.8.A.2., 5.2.8.A.3., 5.2.8.B.1., 5.2.8.B.2.	W	780	***Genetics*** includes a description of Mendel's work and the history of genetics. It also covers cells and DNA, as well as applications of DNA technology.	**chromosome** **DNA** **gene genetics** **heredity**
Global Weather ISBN 0022859144 6 PK ISBN 0022866337	5.8.8.B.1., 5.8.8.B.2., 5.8.8.D.1., 5.10.8.B.1.	W	670	***Global Weather*** identifies the factors that make up weather, the role of the water cycle in weather, forms of severe weather, and human impact on weather. It also includes information about careers in meteorology.	**air pressure** **drought** **global wind patterns** **meteorologist** **troposphere**
Hurricanes and Tornadoes ISBN 0022847154 6 PK ISBN 0022865012	5.8.8.D.1.	T	830	***Hurricanes and Tornadoes*** explains how hurricanes and tornadoes form, locations where they commonly occur, and types of damage they cause.	**air pressure** **cyclone** **hurricane** **thunderstorm** **typhoon**
Life Goes On * ISBN 0022847219 6 PK ISBN 0022865063	5.5.8.8.C.1., 5.10.8.A.1.	U	690	Sexual and asexual reproduction are compared and contrasted in ***Life Goes On.*** This book also discusses diversity among individuals, and adaptations that help young organisms survive in different environments.	**asexual reproduction** **fertilization** **pollination** **sexual reproduction** **species**
Life on a Space Station ISBN 0022847219 6 PK ISBN 0022865063	5.2.8.A.2., 5.2.8.A.3., 5.2.8.B.1., 5.2.8.B.2.	V	900	Students explore everyday life on a space station, the history of the space station, and careers in space exploration in ***Life On a Space Station***.	**atmosphere** **microgravity** **mission** **orbit** **radiation**
Looking to the Sky ISBN 0022847189 6 PK ISBN 0022865047	5.2.8.A.1.a., 5.2.8.A.1.b., 5.2.8.A.1.c., 5.2.8.A.2., 5.2.8.A.3., 5.2.8.B.1., 5.2.8.B.2.	T	820	***Looking to the Sky*** highlights the cumulative nature of scientific knowledge, discusses the development of the sciences of astronomy and rocketry, and describes the future of space exploration.	**astronomy** **comet galaxy** **rocketry** **telescope**

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TITLE	NJ STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
Magnetism ISBN 0022859071 6 PK ISBN 0022866388	5.2.8.A.2., 5.2.8.A.3., 5.2.8.B.2., 5.4.8.C.2.a., 5.4.8.C.2.b., 5.4.8.C.2.c., 5.4.8.C.2.d.	P	620	The force of magnetism and Earth's magnetic field are described in ***Magnetism***. This book also explains the relationship between magnetism and electricity and applications of electromagnets and motors.	**compass** **electromagnet** **magnet magnetic field pole**
Mission: Green Earth * ISBN 0022859101 6 PK ISBN 0022866329	5.10.8.B.1., 5.10.8.B.2.	U	650	The term natural resources is defined in ***Mission: Green Earth.*** This book also describes how Earth's resources can be used in sustainable ways and describes the negative impact of fossil fuel use and clear cutting.	**environment** **global warming** **natural resource** **nonrenewable** **renewable**
Mixtures and Solutions ISBN 0022859373 6 PK ISBN 0022866345	5.6.8.A.3., 5.6.8.B.1.	Q	590	In ***Mixtures and Solutions*** students are introduced to the differences between mixtures and solutions and methods that can be used to separate mixtures and solutions. This book also describes the difference between chemical change and physical change.	**chemical change** **mixture** **physical change** **solution** **suspension**
Motion and Energy at Play * ISBN 002285911X 6 PK ISBN 002286637X	5.7.8.A.1., 5.7.8.A.2., 5.7.8.A.3.	T	800	***Motion and Energy at Play*** explains how the science of physics is applied in bicycling, skateboarding, and inline skating. Simple machines are discussed, and the force of friction is defined and discussed.	**accelerate** **friction** **gravity inertia** **physics**
Nature's Partners ISBN 0022859047 6 PK ISBN 0022866264	5.10.8.A.1.	P	530	***Nature's Partners*** describes and gives examples of symbiosis, mutualism, and commensalism. Examples of each type of relationship are pictured and described. For example, the relationship between sea anemone and clownfish is used to illustrate mutualism.	**commensalism** **mutualism** **organism** **parasitism** **symbiosis**
One-Celled Organisms * ISBN 0022847030 6 PK ISBN 0022864881	5.2.8.A.3., 5.5.8.8.A.2., 5.5.8.8.B.1.	U	730	***One-Celled Organisms*** discusses cells and microscopes. It also explores classification and gives a description of various types of one-celled organisms, including Monera, Protists, and Fungi.	**bacteria** **cell** **fungi/fungus** **microbe** **protist**

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TITLE	NJ STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
Periodic Table Families ISBN 0022847243 6 PK ISBN 0022865098	5.2.8.A.2., 5.2.8.A.3., 5.2.8.B.1., 5.2.8.B.2., 5.6.8.A.1., 5.6.8.A.4.	V	840	***Periodic Table Families*** defines the term matter and describes the structure of the atom. It also explains how the periodic table was developed, describes states of matter, and discusses the properties of metals, nonmetals, and gases.	**atom** **element** **matter metal** **metalloid**
Plastics ISBN 0022847278 6 PK ISBN 0022865136	5.2.8.A.2., 5.2.8.A.3., 5.2.8.B.1., 5.2.8.B.2., 5.6.8.A.4., 5.6.8.B.1., 5.10.8.B.1., 5.10.8.B.2.	W	890	***Plastics*** explains how various plastics are made, describes uses and properties of different types of plastics, and emphasizes the importance of recycling plastics.	**compound** **molecule** **plastic** **polymer** **synthetic**
Seeds and Spores ISBN 0022861734 6 PK ISBN 0022864938	5.5.8.8.B.1., 5.5.8.8.C.1., 5.10.8.A.1.	O	770	***Seeds and Spores*** explains how plants are classified based on their method of reproduction, describes the life cycle of plants, and identifies the roles played by animals in the fertilization of plants.	**fertilization** **pollination** **reproduce** **seed spores**
Shake, Rattle, and Explode * ISBN 0022859098 6 PK ISBN 0022866299	5.2.8.B.2., 5.8.8.D.1.	U	660	Volcanoes are the focus of ***Shake, Rattle, and Explode!*** Earthquakes, tsunamis, and plate tectonics are also discussed. Significant historical eruptions, such as Krakatau, are described and the December 24, 2004 tsunami is discussed.	**erupt** **lava** **magma** **seismograph** **tsunami**
Sir Isaac Newton ISBN 0022859063 6 PK ISBN 0022866353	5.2.8.A.3., 5.2.8.B.1., 5.7.8.A.1., 5.7.8.A.2., 5.7.8.A.3.	P	510	***Sir Isaac Newton*** describes Newton's life, his major discoveries, and Newton's three laws of motion. Newton's work on the topic of gravity is also discussed. Each of the three laws of motion is clarified with photos, and experiments to demonstrate the laws of motion are included.	**experiment** **force** **gravity** **mass** **motion**
Sonar, Radar, and Lasers ISBN 0022859160 6 PK ISBN 0022863418	5.2.8.B.2., 5.7.8.B.2.	W	830	***Sonar, Radar, and Lasers*** gives an overview of how these three technologies work and their current and possible future applications.	**laser** **optic fiber** **radar** **sonar transmitter**

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TITLE	NJ STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
The Sun and Other Stars * ISBN 0022847197 6 PK ISBN 0022865055	5.2.8.A.2., 5.2.8.A.3., 5.2.8.B.1., 5.9.8.C.1.	U	770	***The Sun and Other Stars*** compares the Sun to other stars, describes eclipses, the life cycle of stars, constellations, galaxies, and the history of astronomy.	**astronomer galaxy light year solar system supernova**
The Water Cycle * ISBN 0022847138 6 PK ISBN 0022864989	5.8.8.B.1., 5.8.8.B.2., 5.8.8.D.1., 5.10.8.A.1., 5.10.8.B.1., 5.10.8.B.2.	U	900	The importance of water on Earth, the water cycle, aquifers, glaciers, wetlands, and water use management are discussed in ***The Water Cycle*.**	**aquifer condense evaporate groundwater precipitation**
The Weather Detectives * ISBN 0022847162 6 PK ISBN 0022865020	5.2.8.A.3., 5.2.8.B.2.	U	840	***The Weather Detectives*** describes historic and current methods and tools used for weather forecasting. Clouds, air pressure, and humidity are characteristics of weather that are defined and discussed in this book.	**air pressure barometer front humidity meteorology**
Weird and Wonderful Plants * ISBN 0022847065 6 PK ISBN 002286492X	5.5.8.8.B.1., 5.10.8.A.1.	U	830	***Weird and Wonderful Plants*** explains the process of photosynthesis. It also describes parasitic plants, semi-parasitic plants, epiphytes, and insect-eating plants.	**chlorophyll epiphyte nitrogen parasite photosynthesis**
What is GPS? ISBN 0022859055 6 PK ISBN 0022866280	5.2.8.A.3., 5.2.8.B.2.	Q	610	***What is GPS?*** describes historic methods of navigation and explains how Global Position Systems work and are used. The role of satellites in the function of Global Position Systems is described, and causes of errors in GPS readings are discussed.	**GPS (Global Positioning System) latitude longitude orbit satellite**
When Energy Changes * ISBN 0022859128 6 PK ISBN 0022866396	5.2.8.A.2., 5.2.8.A.3., 5.7.8.B.1., 5.7.8.B.2., 5.7.8.B.3., 5.10.8.B.1.	T	660	Forms of energy and changes in energy are described in ***When Energy Changes*.** This book also describes uses of solar energy, the history of electricity, how an electric circuit works, and how sound is heard.	**circuit electric current energy force solar energy**

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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.**
A.	**Habits of Mind**
5.1.8.A.1.	Evaluate the strengths and weaknesses of data, claims, and arguments.
5.1.8.A.2.	Communicate experimental findings to others.
5.1.8.A.3.	Recognize that the results of scientific investigations are seldom exactly the same and that replication is often necessary.
5.1.8.A.4.	Recognize that curiosity, skepticism, open-mindedness, and honesty are attributes of scientists.
B.	**Inquiry and Problem Solving**
5.1.8.B.1.	Identify questions and make predictions that can be addressed by conducting investigations.
5.1.8.B.2.	Design and conduct investigations incorporating the use of a control.
5.1.8.B.3.	Collect, organize, and interpret the data that result from experiments.
C.	**Safety**
5.1.8.C.1.	Know when and how to use appropriate safety equipment with all classroom materials.
5.1.8.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.**
A.	**Cultural Contributions**
5.2.8.A.1.	Recognize that scientific theories:
5.2.8.A.1.a.	develop over time,
5.2.8.A.1.b.	depend on the contributions of many people, and
5.2.8.A.1.c.	reflect the social and political climate of their time.
5.2.8.A.2.	Know that scientists are men and women of many cultures who often work together to solve scientific and technological problems.
5.2.8.A.3.	Describe how different people in different cultures have made and continue to make contributions to science and technology.
B.	**Historical Perspectives**
5.2.8.B.1.	Describe the impact of major events and people in the history of science and technology, in conjunction with other world events.
5.2.8.B.2.	Describe the development and exponential growth of scientific knowledge and technological innovations.
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.**
A.	**Numerical Operations**
5.3.8.A.1.	Express quantities using appropriate number formats, such as:
5.3.8.A.1.a.	decimals.
5.3.8.A.1.b.	percents.

5.3.8.A.1.c.	scientific notation.
B.	**Geometry and Measurement**
5.3.8.B.1.	Perform mathematical computations using labeled quantities and express answers in correctly derived units.
C.	**Patterns and Algebra**
5.3.8.C.1.	Express physical relationships in terms of mathematical equations derived from collected data.
D.	**Data Analysis and Probability**
5.3.8.D.1.	Represent and describe mathematical relationships among variables using:
5.3.8.D.1.a.	graphs.
5.3.8.D.1.b.	tables.
5.3.8.D.2.	Analyze experimental data sets using measures of central tendency:
5.3.8.D.2.a.	mean.
5.3.8.D.2.b.	mode.
5.3.8.D.2.c.	median.
5.3.8.D.3.	Construct and use a graph of experimental data to draw a line of best fit and identify a linear relationship between variables.
5.3.8.D.4.	Use computer spreadsheets, graphing and database applications to assist in quantitative analysis of 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.**
A.	**Science and Technology**

5.4.8.A.1.	Reinforce indicators from previous grade level.
B.	**Nature of Technology**
5.4.8.B.1.	Reinforce indicators from previous grade level.
C.	**Technological Design**
5.4.8.C.1.	Select a technological problem and describe the criteria and constraints that are addressed in solving the problem.
5.4.8.C.2.	Identify the basic components of a technological system:
5.4.8.C.2.a.	input.
5.4.8.C.2.b.	process.
5.4.8.C.2.c.	output.
5.4.8.C.2.d.	feedback.
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.**
A.	**Matter, Energy, and Organization in Living Systems**
5.5.8.8.A.1.	Explain how systems of the human body are interrelated and regulate the body's internal environment.
5.5.8.8.A.2.	Identify and describe the structure and function of cells and cell parts.
B.	**Diversity and Biological Evolution**
5.5.8.8.B.1.	Describe and give examples of the major categories of organisms and of the characteristics shared by organisms.
5.5.8.8.B.2.	Compare and contrast acquired and inherited characteristics in human and other species

C.	**Reproduction and Heredity**
5.5.8.8.C.1.	Describe life cycles of humans and other organisms.
STANDARD 5.6	**(Chemistry) All students will gain an understanding of the structure and behavior of matter.**
A.	**Structure and Properties of Matter**
5.6.8.A.1.	Recognize that about 100 different elements have been identified and most materials on Earth are made of a few of them.
5.6.8.A.2.	Show that equal volumes of different substances usually have different masses.
5.6.8.A.3.	Describe the properties of mixtures and solutions, including concentration and saturation.
5.6.8.A.4.	Describe characteristic physical properties such as boiling point, melting point, and solubility, and recognize that the property is independent of the amount of sample.
B.	**Chemical Reactions**
5.6.8.B.1.	Recognize evidence of a chemical change.
STANDARD 5.7	**(Physics) All students will gain an understanding of natural laws as they apply to motion, forces, and energy transformations.**
A.	**Motion and Forces**
5.7.8.A.1.	Recognize that an object at rest will remain at rest and an object moving in a straight line at a steady speed will continue to move in a straight line at a steady speed unless a net (unbalanced) force acts on it.
5.7.8.A.2.	Recognize that motion can be retarded by forces such as friction and air resistance.
5.7.8.A.3.	Recognize that everything on or near the earth is pulled toward the earth's center by gravitational force.
B.	**Energy Transformations**
5.7.8.B.1.	Recognize that heat flows through materials or across space from warmer objects to cooler ones.

5.7.8.B.2.	Show that vibrations in materials can generate waves that can transfer energy from one place to another.
5.7.8.B.3.	Design an electric circuit to investigate the behavior of a system.
STANDARD 5.8	**(Earth Science) All students will gain an understanding of the structure, dynamics, and geophysical systems of the earth.**
A.	**Earth's Properties and Materials**
5.8.8.A.1.	Reinforce indicators from previous grade level.
B.	**Atmosphere and Weather**
5.8.8.B.1.	Describe the composition, circulation, and distribution of the world's oceans, estuaries, and marine environments.
5.8.8.B.2.	Describe and illustrate the water cycle.
C.	**Processes that Shape the Earth**
5.8.8.C.1.	Summarize the process involved in the rock cycle and describe the characteristics of the rocks involved.
D.	**How We Study the Earth**
5.8.8.D.1.	Utilize various tools such as map projections and topographical maps to interpret features of Earth's surface.
STANDARD 5.9	**(Astronomy & Space Science) All students will gain an understanding of the origin, evolution, and structure of the universe.**
A.	**Earth, Moon, Sun System**
5.9.8.A.1.	Explain how the motions of the Earth, sun, and moon, define units of time including:
5.9.8.A.1.a.	days
5.9.8.A.1.b.	months

5.9.8.A.1.c.	years
5.9.8.A.2.	Recognize that changes in the Earth's position relative to the sun produces differing amounts of daylight seasonally.
B.	**Solar System**
5.9.8.B.1.	Using models, demonstrate an understanding of the scale of the solar system that shows distance and size relationships among the sun and planets.
5.9.8.B.2.	Recognize that the sun's gravitational pull holds the planets in their orbits and that the planets' gravitational pull holds their moons in their orbits.
C.	**Stars**
5.9.8.C.1.	Observe and record short-term and long-term changes in the positions of the constellations in the night sky.
5.9.8.C.2.	Observe that the planets appear to change their position against the background of stars.
D.	**Galaxies and Universe**
5.9.8.D.1.	Reinforce indicators from previous 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.**
A.	**Natural Systems and Interactions**
5.10.8.A.1.	Explain how organisms interact with other components of an ecosystem.
5.10.8.A.2.	Describe the natural processes that occur over time in places where direct human impact is minimal.
B.	**Human Interactions and Impact**
5.10.8.B.1.	Describe the effect of human activities on various ecosystems.
5.10.8.B.2.	Evaluate the impact of personal activities on the local environment.