

Correlation to the New York State Learning Standards and Major Understandings

This worktext is customized to the *New York Intermediate Science Core Curriculum* and will help you prepare for the *New York State Evaluation Test in Science for Grade 8*.

After the lesson is completed, place a (✓) to indicate Mastery or a (X) to indicate Review Needed.

Chapter 1: Scientific Inquiry		Review Skill												
		Mastered Skill												
		1	2	3	4	5	NA	NA	Chap Rev	End Rev				
M1.1	Mathematical Analysis. Extend mathematical notation and symbolism to include variables and algebraic expressions in order to describe and compare quantities and express mathematical relationships.													
M1.1a	Identify independent and dependent variables.	○	○	○	★	★						★	★	
M1.1b	Identify relationships among variables including: direct, indirect, cyclic, constant; identify non-related material.	○	○	○	★	★						✓	★	
M1.1c	Apply mathematical equations to describe relationships among variables in the natural world.	○	○	○	○	★						★	★	
M2.1	Mathematical Analysis. Use inductive reasoning to construct, evaluate, and validate conjectures and arguments, recognizing that patterns and relationships can assist in explaining and extending mathematical phenomena.													
M2.1a	Interpolate and extrapolate from data.	○	○	★	✓	✓						✓	✓	
M2.1b	Quantify patterns and trends.	○	○	★	✓	✓						✓	✓	
M3.1	Mathematical Analysis. Apply mathematical knowledge to solve real-world problems and problems that arise from the investigation of mathematical ideas, using representations such as pictures, charts, and tables.													
M3.1a	Use appropriate scientific tools to solve problems about the natural world.	○	○	★	✓	✓						✓	✓	
S1.1	Scientific Inquiry. Formulate questions independently with the aid of references appropriate for guiding the search for explanations of everyday observations.													
S1.1a	Formulate questions about natural phenomena.	★	✓	✓	✓	✓						★	✓	
S1.1b	Identify appropriate references to investigate a question.	★	✓	✓	✓	✓						✓	✓	
S1.1c	Refine and clarify questions so that they are subject to scientific investigation.	★	✓	✓	✓	✓						★	✓	
S1.2	Scientific Inquiry. Construct explanations independently for natural phenomena, especially by proposing preliminary visual models of phenomena.													
S1.2a	Independently formulate a hypothesis.	★	✓	✓	✓	✓						★	★	
S1.2b	Propose a model of a natural phenomenon.	★	✓	✓	✓	✓						✓	✓	
S1.2c	Differentiate among observations, inferences, predictions, and explanations.	★	✓	✓	✓	✓						★	★	
S1.3	Scientific Inquiry. Represent, present, and defend their proposed explanations of everyday observations so that they can be understood and assessed by others.	★	✓	✓	✓	✓						✓	✓	
S1.4	Scientific Inquiry. Seek to clarify, to assess critically, and to reconcile with their own thinking the ideas presented by others, including peers, teachers, authors, and scientists.	★	✓	✓	✓	✓						✓	✓	
S2.1	Scientific Inquiry. Use conventional techniques and those of their own design to make further observations and refine their explanations, guided by a need for more information.													
S2.1a	Demonstrate appropriate safety techniques.	○	○	★	✓	✓						★	★	
S2.1d	Use appropriate tools and conventional techniques to solve problems about the natural world, including: <ul style="list-style-type: none"> • measuring • observing • describing • classifying • sequencing 	○	★	✓	✓	✓						★	✓	

★ Standard Covered

○ Standard to be covered

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Chapter 1: Scientific Inquiry		Review Skill											
		Mastered Skill											
		1	2	3	4	5	NA	NA	Chap Rev	End Rev			
S2.2	Scientific Inquiry. Develop, present, and defend formal research proposals for testing their own explanations of common phenomena, including ways of obtaining needed observations and ways of conducting simple controlled experiments.												
S2.2a	Include appropriate safety procedures.	○	★	✓	✓	✓						✓	✓
S2.2b	Design scientific investigations (e.g., observing, describing, and comparing; collecting samples; seeking more information; conducting a controlled experiment; discovering new objects or phenomena; making models).	○	★	✓	✓	✓						✓	✓
S2.2c	Design a simple controlled experiment.	○	★	✓	✓	✓						✓	✓
S2.2d	Identify independent variables (manipulated), dependent variables (responding), and constants in a simple controlled experiment.	○	★	✓	✓	✓						★	★
S2.2e	Choose appropriate sample size and number of trials.	○	★	✓	✓	✓						✓	★
S2.3	Scientific Inquiry. Carry out their research proposals, recording observations and measurements (e.g., lab notes, audiotape, computer disk, videotape) to help assess the explanation.												
S2.3a	Use appropriate safety procedures	○	○	★	✓	✓						★	✓
S2.3c	Collect quantitative and qualitative data.	○	★	✓	✓	✓						✓	★
S3.1	Scientific Inquiry. Design charts, tables, graphs, and other representations of observations in conventional and creative ways to help them address their research question or hypothesis.												
S3.1a	Organize results, using appropriate graphs, diagrams, data tables, and other models to show relationships.	○	○	○	★	✓						★	★
S3.1b	Generate and use scales, create legends, and appropriately label axes.	○	○	○	★	✓						✓	✓
S3.2	Scientific Inquiry. Interpret the organized data to answer the research question or hypothesis and to gain insight into the problem.												
S3.2a	Accurately describe the procedures used and the data gathered.	○	○	○	★	✓						✓	✓
S3.2b	Identify sources of error and the limitations of data collected.	○	★	○	★	✓						✓	✓
S3.2c	Evaluate the original hypothesis in light of the data.	○	○	○	★	✓						✓	✓
S3.2d	Formulate and defend explanations and conclusions as they relate to scientific phenomena.	○	○	○	★	✓						✓	✓
S3.2e	Form and defend a logical argument about cause-and-effect relationships in an investigation.	○	○	○	★	✓						✓	✓
S3.2f	Make predictions based on experimental data.	○	○	○	★	✓						✓	✓
S3.2g	Suggest improvements and recommendations for further studying.	○	○	○	★	✓						✓	★
S3.2h	Use and interpret graphs and data tables.	○	○	○	★	✓						★	✓
S3.3	Scientific Inquiry. Modify their personal understanding of phenomena based on evaluation of their hypothesis.												
2.2.1	Information Systems. Understand the need to question the accuracy of information displayed on a computer because the results produced by a computer may be affected by incorrect data entry.	○	○	○	★	✓						✓	✓

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Chapter 2: Living Things	Review Skill									
	Mastered Skill									
	Lessons	6	7	8	NA	NA	NA	NA	Chap Rev	End Rev
LE 1.1a Living things are composed of cells. Cells provide structure and carry on major functions to sustain life. Cells are usually microscopic in size.	★	✓	✓						★	★
LE 1.1b The way in which cells function is similar in all living things. Cells grow and divide, producing more cells. Cells take in nutrients, which they use to provide energy for the work that cells do and to make the materials that a cell or an organism needs.	★	✓	✓						★	★
LE 1.1c Most cells have cell membranes, genetic material, and cytoplasm. Some cells have a cell wall and/or chloroplasts. Many cells have a nucleus.	★	✓	✓						★	★
LE 1.1d Some organisms are single cells; others, including humans, are multicellular.	★	✓	✓						★	★
LE 1.1e Cells are organized for more effective functioning in multicellular organisms. Levels of organization for structure and function of a multicellular organism include cells, tissues, organs, and organ systems.	○	★	✓						★	★
LE 1.1f Many plants have roots, stems, leaves, and reproductive structures. These organized groups of tissues are responsible for a plant's life activities.	○	★	✓						★	★
LE 1.1g Multicellular animals often have similar organs and specialized systems for carrying out major life activities.	○	★	✓						★	★
LE 1.1h Living things are classified by shared characteristics on the cellular and organism level. In classifying organisms, biologists consider details of internal and external structures. Biological classification systems are arranged from general (kingdom) to specific (species).	○	○	★						★	★
Chapter 3: The Human Body	Review Skill									
Mastered Skill										
Lessons	9	10	11	12	13	14	15	Chap Rev	End Rev	
LE 1.2a Each system is composed of organs and tissues which perform specific functions and interact with each other.	★	★	★	★	✓	✓	✓	★	★	
LE 1.2b Tissues, organs, and organ systems help to provide all cells with nutrients, oxygen, and waste removal.	★	★	★	★	✓	✓	✓	★	★	
LE 1.2c The digestive system consists of organs that are responsible for the mechanical and chemical breakdown of food. The breakdown process results in molecules that can be absorbed and transported to cells.	○	★	✓	✓	✓	✓	✓	★	★	
LE 1.2d During respiration, cells use oxygen to release the energy stored in food. The respiratory system supplies oxygen and removes carbon dioxide (gas exchange).	★	✓	✓	✓	✓	✓	✓	★	★	
LE 1.2e The excretory system functions in the disposal of dissolved waste molecules, the elimination of liquid and gaseous wastes, and the removal of excess heat energy.	○	★	✓	✓	✓	✓	✓	★	★	
LE 1.2f The circulatory system moves substances to and from cells, where they are needed or produced, responding to changing demands.	★	✓	✓	✓	✓	✓	✓	★	★	
LE 1.2g Locomotion, necessary to escape danger, obtain food and shelter, and reproduce, is accomplished by the interaction of the skeletal and muscular systems, and coordinated by the nervous system.	○	○	★	★	✓	✓	✓	★	★	
LE 1.2h The nervous and endocrine systems interact to control and coordinate the body's responses to changes in the environment, and to regulate growth, development, and reproduction. Hormones are chemicals produced by the endocrine system; hormones regulate many body functions.	○	○	○	★	✓	✓	✓	★	★	
LE 1.2i The male and female reproductive systems are responsible for producing sex cells necessary for the production of offspring.	○	○	○	○	★	✓	✓	★	★	
LE 1.2j Disease breaks down the structures or functions of an organism. Some diseases are the result of failures of the system. Other diseases are the result of damage by infection from other organisms. Specialized cells protect the body from infectious disease. The chemicals they produce identify and destroy microbes that enter the body.	○	○	○	○	○	★	✓	★	★	
LE 4.4d Cancers are a result of abnormal cell division.	○	○	○	○	○	★	✓	★	★	

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Chapter 3: The Human Body	Review Skill									
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	Lessons	9	10	11	12	13	14	15	Chap Rev	End Rev
LE 5.1f Regulation of an organism’s internal environment involves sensing the internal environment and changing physiological activities to keep conditions within the range required for survival. Regulation includes a variety of nervous and hormonal feedback systems.		○	○	○	★	✓	✓	★	✓	✓
LE 5.2a Food provides molecules that serve as fuel and building material for all organisms. All living things, including plants, must release energy from their food, using it to carry on their life processes.		○	○	○	○	○	○	★	★	✓
LE 5.2b Foods contain a variety of substances, which include carbohydrates, fats, vitamins, proteins, minerals, and water. Each substance is vital to the survival of the organism.		○	○	○	○	○	○	★	✓	★
LE 5.2c Metabolism is the sum of all chemical reactions in an organism. Metabolism can be influenced by hormones, exercise, diet, and aging.		○	○	○	○	○	○	★	★	✓
LE 5.2d Energy in foods is measured in Calories. The total caloric value of each type of food varies. The number of Calories a person requires varies from person to person.		○	○	○	○	○	○	★	✓	★
LE 5.2e In order to maintain a balanced state, all organisms have a minimum daily intake of each type of nutrient based on species, size, age, sex, activity, etc. An imbalance in any of the nutrients might result in weight gain, weight loss, or a diseased state.		○	○	○	○	○	○	★	★	★
LE 5.2f Contraction of infectious disease, and personal behaviors such as use of toxic substances and some dietary habits, may interfere with one’s dynamic equilibrium. During pregnancy these conditions may also affect the development of the child. Some effects of these conditions are immediate; others may not appear for many years.		○	○	○	○	○	★	✓	✓	✓
2.1.3 Information Systems. Systematically obtain accurate and relevant information pertaining to a particular topic from a range of sources, including local and national media, libraries, museums, governmental agencies, industries, and individuals.		○	○	○	○	○	○	★	✓	✓
Chapter 4: Genetics and Evolution	Review Skill									
	Mastered Skill									
	Lessons	16	17	18	19	20	21	22	Chap Rev	End Rev
LE 2.1a Hereditary information is contained in genes. Genes are composed of DNA that makes up the chromosomes of cells.		★	✓	✓	✓	✓	✓	✓	★	★
LE 2.1b Each gene carries a single unit of information. A single inherited trait of an individual can be determined by one pair or by many pairs of genes. A human cell contains thousands of different genes.		★	✓	✓	✓	✓	✓	✓	★	★
LE 2.1c Each human cell contains a copy of all the genes needed to produce a human being.		★	✓	✓	✓	✓	✓	✓	★	✓
LE 2.1d In asexual reproduction, all the genes come from a single parent. Asexually produced offspring are genetically identical to the parent.		○	★	✓	✓	✓	✓	✓	✓	✓
LE 2.1e In sexual reproduction typically half of the genes come from each parent. Sexually produced offspring are not identical to either parent.		○	★	✓	✓	✓	✓	✓	★	✓
LE 2.2a In all organisms, genetic traits are passed on from generation to generation.		★	★	★	✓	✓	✓	✓	★	★
LE 2.2b Some genes are dominant and some are recessive. Some traits are inherited by mechanisms other than dominance and recessiveness.		○	○	★	✓	✓	✓	✓	★	★
LE 2.2c The probability of traits being expressed can be determined using models of genetic inheritance. Some models of prediction are pedigree charts and Punnett squares.		○	○	★	✓	✓	✓	✓	★	★
2.3.3 Information Systems. Explain the impact of the use and abuse of electronically generated information on individuals and their families.		★	✓	✓	✓	✓	✓	✓	✓	✓
LE 3.1a The processes of sexual reproduction and mutation have given rise to a variety of traits within a species.		○	○	○	○	★	✓	✓	★	★

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Chapter 4: Genetics and Evolution	Review Skill									
	Mastered Skill									
	Lessons	16	17	18	19	20	21	22	Chap Rev	End Rev
LE 3.1b Changes in environmental conditions can affect the survival of individual organisms with a particular trait. Small differences between parents and offspring can accumulate in successive generations so that descendants are very different from their ancestors. Individual organisms with certain traits are more likely to survive and have offspring than individuals without those traits.		○	○	○	○	★	★	✓	★	★
LE 3.1c Human activities such as selective breeding and advances in genetic engineering may affect the variations of species.		○	○	○	○	★	✓	✓	✓	★
LE 3.2a In all environments, organisms with similar needs may compete with one another for resources.		○	○	○	○	○	★	✓	★	✓
LE 3.2b Extinction of a species occurs when the environment changes and the adaptive characteristics of a species are insufficient to permit its survival. Extinction of species is common. Fossils are evidence that a great variety of species existed in the past.		○	○	○	○	○	★	✓	★	★
LE 3.2c Many thousands of layers of sedimentary rock provide evidence for the long history of Earth and for the long history of changing life-forms whose remains are found in the rocks. Recently deposited rock layers are more likely to contain fossils resembling existing species.		○	○	○	○	○	○	★	★	★
LE 3.2d Although the time needed for change in a species is usually great, some species of insects and bacteria have undergone significant change in just a few years.		○	○	○	○	○	○	★	★	✓
LE 4.1a Some organisms reproduce asexually. Other organisms reproduce sexually. Some organisms can reproduce both sexually and asexually.		○	★	✓	✓	✓	✓	✓	✓	✓
LE 5.1a Animals and plants have a great variety of body plans and internal structures that contribute to their ability to maintain a balanced condition.		○	○	○	★	✓	✓	✓	✓	✓
LE 5.1b An organism's overall body plan and its environment determine the way that the organism carries out the life processes.		○	○	○	★	✓	✓	✓	★	★
LE 5.1g The survival of an organism depends on its ability to sense and respond to its external environment.		○	○	○	○	○	★	✓	★	✓
Chapter 5: Reproduction	Review Skill									
	Mastered Skill									
	Lessons	23	24	25	26	NA	NA	NA	Chap Rev	End Rev
LE 4.1a Some organisms reproduce asexually. Other organisms reproduce sexually. Some organisms can reproduce both sexually and asexually.		★	✓	✓	✓				★	★
LE 4.1b There are many methods of asexual reproduction, including division of a cell into two cells, or separation of part of an animal or plant from the parent, resulting in growth of another individual.		★	✓	✓	✓				★	★
LE 4.1c Methods of sexual reproduction depend upon the species. All methods involve the merging of sex cells to begin the development of a new individual. In many species, including plants and humans, eggs and sperm are produced.		★	✓	✓	✓				★	★
LE 4.1d Fertilization and/or development in organisms may be internal or external.		★	✓	✓	✓				★	★
LE 4.2a The male sex cell is the sperm. The female sex cell is the egg. The fertilization of an egg by a sperm results in a fertilized egg.		★	✓	✓	✓				★	★
LE 4.2b In sexual reproduction, sperm and egg each carry one-half of the genetic information for the new individual. Therefore, the fertilized egg contains genetic information from each parent.		★	✓	✓	✓				★	★
LE 4.3a Multicellular organisms exhibit complex changes in development, which begin after fertilization. The fertilized egg undergoes numerous cellular divisions that will result in a multicellular organism, with each cell having identical genetic information.		○	○	★	★				★	✓
LE 4.3b In humans, the fertilized egg grows into tissue which develops into organs and organ systems before birth.		○	○	○	★				★	✓
LE 4.3c Various body structures and functions change as an organism goes through its life cycle.		○	○	★	★				★	✓

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Chapter 5: Reproduction	Review Skill									
	Mastered Skill									
	Lessons	23	24	25	26	NA	NA	NA	Chap Rev	End Rev
LE 4.3d Patterns of development vary among animals. In some species the young resemble the adult, while in others they do not. Some insects and amphibians undergo metamorphosis as they mature.		○	○	○	★				★	★
LE 4.3e Patterns of development vary among plants. In seed-bearing plants, seeds contain stored food for early development. Their later development into adulthood is characterized by varying patterns of growth from species to species.		○	○	★	✓				★	★
LE 4.3f As an individual organism ages, various body structures and functions change.		○	○	★	★				★	✓
LE 4.4a In multicellular organisms, cell division is responsible for growth, maintenance, and repair. In some one-celled organisms, cell division is a method of asexual reproduction.		★	★	★	★				★	✓
LE 4.4b In one type of cell division, chromosomes are duplicated and then separated into two identical and complete sets to be passed to each of the two resulting cells. In this type of cell division, the hereditary information is identical in all the cells that result.		○	★	✓	✓				★	★
LE 4.4c Another type of cell division accounts for the production of egg and sperm cells in sexually reproducing organisms. The eggs and sperm resulting from this type of cell division contain one-half of the hereditary information.		○	★	✓	✓				★	★
Chapter 6: Ecology	Review Skill									
	Mastered Skill									
	Lessons	27	28	29	30	31	NA	NA	Chap Rev	End Rev
LE 5.1c All organisms require energy to survive. The amount of energy needed and the method for obtaining this energy vary among cells. Some cells use oxygen to release the energy stored in food.		★	✓	✓	✓	✓			★	✓
LE 5.1d The methods for obtaining nutrients vary among organisms. Producers, such as green plants, use light energy to make their food. Consumers, such as animals, take in energy-rich food.		★	✓	✓	✓	✓			★	✓
LE 5.1e Herbivores obtain energy from plants. Carnivores obtain energy from animals. Omnivores obtain energy from both plants and animals. Decomposers, such as bacteria and fungi, obtain energy by consuming wastes and/or dead organisms.		★	✓	✓	✓	✓			★	✓
LE 6.1a Energy flows through ecosystems in one direction, usually from the Sun, through producers to consumers and then to decomposers. This process may be visualized with food chains or energy pyramids.		★	★	✓	✓	✓			★	★
LE 6.1b Food webs identify feeding relationships among producers, consumers, and decomposers in an ecosystem.		○	★	✓	✓	✓			★	★
LE 6.1c Matter is transferred from one organism to another and between organisms and their physical environment. Water, nitrogen, carbon dioxide, and oxygen are examples of substances cycled between the living and nonliving environment.		○	○	★	✓	✓			★	★
LE 6.2a Photosynthesis is carried on by green plants and other organisms containing chlorophyll. In this process, the Sun's energy is converted into and stored as chemical energy in the form of a sugar. The quantity of sugar molecules increases in green plants during photosynthesis in the presence of sunlight.		★	✓	✓	✓	✓			★	★
LE 6.2b The major source of atmospheric oxygen is photosynthesis. Carbon dioxide is removed from the atmosphere and oxygen is released during photosynthesis.		★	✓	✓	✓	✓			★	✓
LE 6.2c Green plants are the producers of food which is used directly or indirectly by consumers		★	✓	✓	✓	✓			★	✓
LE 7.1a A population consists of all individuals of a species that are found together at a given place and time. Populations living in one place form a community. The community and the physical factors with which it interacts compose an ecosystem.		○	○	○	★	✓			★	★
LE 7.1b Given adequate resources and no disease or predators, populations (including humans) increase. Lack of resources, habitat destruction, and other factors such as predation and climate limit the growth of certain populations in the ecosystem.		○	○	○	★	✓			★	✓

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Chapter 6: Ecology	Review Skill									
	Mastered Skill									
	Lessons	27	28	29	30	31	NA	NA	Chap Rev	End Rev
LE 7.1c In all environments, organisms interact with one another in many ways. Relationships among organisms may be competitive, harmful, or beneficial. Some species have adapted to be dependent upon each other with the result that neither could survive without the other.		○	○	○	★	✓			★	★
LE 7.1d Some microorganisms are essential to the survival of other living things.		○	○	○	★	✓				★
LE 7.1e The environment may contain dangerous levels of substances (pollutants) that are harmful to organisms. Therefore, the good health of environments and individuals requires the monitoring of soil, air, and water, and taking steps to keep them safe.		○	○	○	○	★			★	✓
LE 7.2a In ecosystems, balance is the result of interactions between community members and their environment.		○	○	○	○	★			★	★
LE 7.2b The environment may be altered through the activities of organisms. Alterations are sometimes abrupt. Some species may replace others over time, resulting in long-term gradual changes (ecological succession).		○	○	○	○	★			★	★
LE 7.2c Overpopulation by any species impacts the environment due to the increased use of resources. Human activities can bring about environmental degradation through resource acquisition, urban growth, land-use decisions, waste disposal, etc.		○	○	○	★	★			★	★
LE 7.2d Since the Industrial Revolution, human activities have resulted in major pollution of air, water, and soil. Pollution has cumulative ecological effects such as acid rain, global warming, or ozone depletion. The survival of living things on our planet depends on the conservation and protection of Earth's resources.		○	○	○	○	★			✓	★
Chapter 7: The Solar System	Review Skill									
Mastered Skill										
Lessons	32	33	34	35	NA	NA	NA	Chap Rev	End Rev	
PS 1.1a Earth's Sun is an average-sized star. The Sun is more than a million times greater in volume than Earth.	★	✓	✓	✓				★	★	
PS 1.1b Other stars are like the Sun but are so far away that they look like points of light. Distances between stars are vast compared to distances within our solar system.	★	✓	✓	✓				★	★	
PS 1.1c The Sun and the planets that revolve around it are the major bodies in the solar system. Other members include comets, moons, and asteroids. Earth's orbit is nearly circular.	★	✓	✓	✓				★	★	
PS 1.1d Gravity is the force that keeps planets in orbit around the Sun and the Moon in orbit around Earth.	★	★	✓	✓				★	✓	
PS 1.1e Most objects in the solar system have a regular and predictable motion. These motions explain such phenomena as a day, a year, phases of the Moon, eclipses, tides, meteor showers, and comets.	★	★	✓	★				★	✓	
PS 1.1f The latitude/longitude coordinate system and our system of time are based on celestial observations.	○	○	★	✓				★	✓	
PS 1.1g Moons are seen by reflected light. Our Moon orbits Earth, while Earth orbits the Sun. The Moon's phases as observed from Earth are the result of seeing different portions of the lighted area of the Moon's surface. The phases repeat in a cyclic pattern in about one month.	○	○	○	★				★	★	
PS 1.1h The apparent motions of the Sun, Moon, planets, and stars across the sky can be explained by Earth's rotation and revolution. Earth's rotation causes the length of one day to be approximately 24 hours. This rotation also causes the Sun and Moon to appear to rise along the eastern horizon and to set along the western horizon. Earth's revolution around the Sun defines the length of the year as 365 1/4 days.	○	○	★	✓				★	★	
PS 1.1i The tilt of Earth's axis of rotation and the revolution of Earth around the Sun cause seasons on Earth. The length of daylight varies depending on latitude and season.	○	○	★	✓				★	★	
PS 1.1j The shape of Earth, the other planets, and stars is nearly spherical.	★	★	✓	✓				★	✓	

★ Standard Covered

○ Standard to be covered

✓ Standard previously covered

Correlation to the New York State Learning Standards and Major Understandings

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Chapter 7: The Solar System		Review Skill								
		Mastered Skill								
		32	33	34	35	NA	NA	NA	Chap Rev	End Rev
PS 4.1a	The Sun is a major source of energy for Earth. Other sources of energy include nuclear and geothermal energy.	★	✓	✓	✓				✓	★
2.1.3	Information Systems. Systematically obtain accurate and relevant information pertaining to a particular topic from a range of sources including local and national media, libraries, museums, governmental agencies, industries, and individuals.	★	✓	✓	✓				✓	✓
T1.2	Analysis, Inquiry, and Design: Engineering Design. Locate and utilize a range of printed, electronic, and human information sources to obtain ideas.	★	✓	✓	✓				✓	✓
Chapter 8: Earth		Review Skill								
		Mastered Skill								
		36	37	38	39	40	41	NA	Chap Rev	End Rev
PS 2.1a	Nearly all the atmosphere is confined to a thin shell surrounding Earth. The atmosphere is a mixture of gases, including nitrogen and oxygen with small amounts of water vapor, carbon dioxide, and other trace gases. The atmosphere is stratified into layers, each having distinct properties. Nearly all weather occurs in the lowest layer of the atmosphere.	★	✓	✓	★	✓	✓		★	★
PS 2.1b	As altitude increases, air pressure decreases.	○	○	○	★	✓	✓		★	★
PS 2.1c	The rock at the Earth's surface forms a nearly continuous shell around Earth called the lithosphere.	★	★	✓	✓	✓	✓		★	✓
PS 2.1d	The majority of the lithosphere is covered by a relatively thin layer of water called the hydrosphere.	★	✓	✓	✓	✓	✓		★	✓
PS 2.1e	Rocks are composed of minerals. Only a few rock-forming minerals make up most of the rocks on Earth. Minerals are identified on the basis of physical properties such as streak, hardness, and reaction to acid.	○	★	✓	✓	✓	✓		✓	★
PS 2.1f	Fossils are usually found in sedimentary rocks. Fossils can be used to study past climates and environments.	○	★	✓	✓	✓	✓		★	★
PS 2.1g	The dynamic processes that wear away Earth's surface include weathering and erosion.	○	○	○	○	○	★		★	★
PS 2.1h	The process of weathering breaks down rocks to form sediment. Soil consists of sediment, organic material, water, and air.	○	○	○	○	○	★		★	★
PS 2.1i	Erosion is the transport of sediment. Gravity is the driving force behind erosion. Gravity can act directly or through agents such as moving water, wind, and glaciers.	○	○	○	○	★	★		★	★
PS 2.1j	Water circulates throughout the atmosphere, lithosphere, and hydrosphere in what is known as the water cycle.	★	✓	✓	✓	★	✓		✓	★
PS 2.2a	The interior of Earth is hot. Heat flow and movement of material within Earth cause sections of Earth's crust to move. This may result in earthquakes, volcanic eruption, and the creation of mountains and ocean basins.	★	✓	✓	✓	✓	✓		★	★
PS 2.2b	Analysis of earthquake wave data (vibrational disturbances) leads to the conclusion that there are layers within Earth. These layers—the crust, mantle, outer core, and inner core—have distinct properties.	★	✓	✓	✓	✓	✓		★	★
PS 2.2c	Folded, tilted, faulted, and displaced rock layers suggest past crustal movement.	○	○	★	✓	✓	✓		✓	✓
PS 2.2d	Continents fitting together like puzzle parts and fossil correlations provided initial evidence that continents were once together.	○	○	★	✓	✓	✓		✓	✓
PS 2.2e	The Theory of Plate Tectonics explains how the "solid" lithosphere consists of a series of plates that "float" on the partially molten section of the mantle. Convection cells within the mantle may be the driving force for the movement of the plates.	○	○	★	✓	✓	✓		★	★
PS 2.2f	Plates may collide, move apart, or slide past one another. Most volcanic activity and mountain building occur at the boundaries of these plates, often resulting in earthquakes.	○	○	★	✓	✓	✓		★	★

★ Standard Covered	○ Standard to be covered	✓ Standard previously covered
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Chapter 8: Earth	Review Skill									
	Mastered Skill									
	Lessons	36	37	38	39	40	41	NA	Chap Rev	End Rev
PS 2.2g Rocks are classified according to their method of formation. The three classes of rocks are sedimentary, metamorphic, and igneous. Most rocks show characteristics that give clues to their formation conditions.		○	★	✓	✓	✓	✓		★	★
PS 2.2h The rock cycle model shows how types of rock or rock material may be transformed from one type of rock to another.		○	★	✓	✓	✓	✓		★	✓
PS 2.2i Weather describes the conditions of the atmosphere at a given location for a short period of time.		○	○	○	○	★	✓		★	✓
PS 2.2j Climate is the characteristic weather that prevails from season to season and year to year.		○	○	○	○	★	✓		✓	★
PS 2.2k The uneven heating of Earth's surface is the cause of weather.		○	○	○	○	★	✓		★	✓
PS 2.2l Air masses form when air remains nearly stationary over a large section of Earth's surface and takes on the conditions of temperature and humidity from that location. Weather conditions at a location are determined primarily by temperature, humidity, and pressure of air masses over that location.		○	○	○	○	★	✓		★	★
PS 2.2m Most local weather condition changes are caused by movement of air masses.		○	○	○	○	★	✓		★	★
PS 2.2n The movement of air masses is determined by prevailing winds and upper air currents.		○	○	○	○	★	✓		★	★
PS 2.2o Fronts are boundaries between air masses. Precipitation is likely to occur at these boundaries.		○	○	○	○	★	✓		✓	✓
PS 2.2p High-pressure systems generally bring fair weather. Low-pressure systems usually bring cloudy, unstable conditions. The general movement of highs and lows is from west to east across the United States.		○	○	○	○	★	✓		★	✓
PS 2.2q Hazardous weather conditions include thunderstorms, tornadoes, hurricanes, ice storms, and blizzards. Humans can prepare for and respond to these conditions if given sufficient warning.		○	○	○	○	★	✓		✓	✓
PS 2.2r Substances enter the atmosphere naturally and from human activity. Some of these substances include dust from volcanic eruptions and greenhouse gases such as carbon dioxide, methane, and water vapor. These substances can affect weather, climate, and living things.		○	○	○	★	✓	✓		✓	★
2.3.2 Information Systems. Describe applications of information technology in mathematics, science, and other technologies that address needs and solve problems in the community.		○	○	○	○	★	✓		✓	✓
Chapter 9: Properties of Matter	Review Skill									
	Mastered Skill									
	Lessons	42	43	44	45	46	NA	NA	Chap Rev	End Rev
PS 3.1a Substances have characteristic properties. Some of these properties include color, odor, phase at room temperature, density, solubility, heat and electrical conductivity, hardness, boiling and freezing points.		○	★	✓	✓	✓			★	★
PS 3.1b Solubility can be affected by the nature of the solute and solvent, temperature, and pressure. The rate of solution can be affected by the size of the particles, stirring, temperature, and the amount of solute already dissolved.		○	○	○	★	✓			★	★
PS 3.1c The motion of particles helps to explain the phases (states) of matter as well as changes from one phase to another. The phase in which matter exists depends on the attractive forces among its particles.		○	○	★	✓	✓			★	✓
PS 3.1d Gases have neither a determined shape nor a definite volume. Gases assume the shape and volume of a closed container.		○	○	★	✓	✓			★	★
PS 3.1e A liquid has definite volume, but takes the shape of a container.		○	○	★	✓	✓			★	★
PS 3.1f A solid has definite shape and volume. Particles resist a change in motion.		○	○	★	✓	✓			★	★
PS 3.1g Characteristic properties can be used to identify different materials, and separate a mixture of substances into its components.		○	★	✓	★	✓			✓	✓

★ Standard Covered

○ Standard to be covered

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Chapter 9: Properties of Matter	Review Skill									
	Mastered Skill									
	Lessons	42	43	44	45	46	NA	NA	Chap Rev	End Rev
PS 3.1h Density can be described as the amount of matter that is in a given amount of space. If two objects have equal volume, but one has more mass, the one with more mass is denser.		○	★	✓	✓	✓			★	★
PS 3.1i Buoyancy is determined by comparative densities.		○	★	✓	✓	✓			★	★
PS 3.2a During a physical change a substance keeps its chemical composition and properties. Examples of physical changes include freezing, melting, condensation, boiling, evaporating, tearing, and crushing.		○	○	○	○	★			★	★
PS 3.2b Mixtures are physical combinations of materials and can be separated by physical means.		○	○	○	★	✓			★	✓
PS 3.2c During a chemical change, substances react in characteristic ways to form new substances with different physical and chemical properties. Examples of chemical changes include burning of wood, cooking of an egg, rusting of iron, and souring of milk.		○	○	○	○	★			★	★
PS 3.2d Substances are often placed in categories if they react in similar ways. Examples include metals, nonmetals, and noble gases.		★	✓	✓	✓	✓			★	✓
PS 3.2e The Law of Conservation of Mass states that during an ordinary chemical reaction matter cannot be created or destroyed. In chemical reactions, the total mass of the reactants equals the total mass of the products.		○	○	○	○	★			✓	✓
PS 3.3a All matter is made up of atoms. Atoms are far too small to be seen with a light microscope.		★	✓	✓	✓	✓			★	★
PS 3.3b Atoms and molecules are perpetually in motion. The greater the temperature, the greater the motion.		○	○	★	✓	✓			★	✓
PS 3.3c Atoms may join together in well-defined molecules or may be arranged in regular geometric patterns.		★	✓	✓	✓	✓			✓	✓
PS 3.3d Interactions among atoms and/or molecules result in chemical reactions.		○	○	○	○	★			✓	✓
PS 3.3e The atoms of any one element are different from the atoms of other elements.		★	✓	✓	✓	✓			★	✓
PS 3.3f There are more than 100 elements. Elements combine in a multitude of ways to produce compounds that account for all living and non-living substances. Few elements are found in their pure form.		★	✓	✓	✓	✓			★	★
PS 3.3g The periodic table is one useful model for classifying elements. The periodic table can be used to predict properties of elements (metals, nonmetals, noble gases).		★	✓	✓	✓	✓			★	★
PS 4.2c During a phase change, heat energy is absorbed or released. Energy is absorbed when a solid changes to a liquid and when a liquid changes to a gas. Energy is released when a gas changes to a liquid and when a liquid changes to a solid.		○	○	★	✓	✓			★	✓
PS 4.2e Temperature affects the solubility of some substances in water.		○	○	○	★	✓			★	✓
PS 4.3a In chemical reactions, energy is transferred into or out of a system. Light, electricity, or mechanical motion may be involved in such transfers in addition to heat.		○	○	○	○	★			★	✓
Chapter 10: Energy	Review Skill									
Mastered Skill										
Lessons	47	48	49	50	51	52	NA	Chap Rev	End Rev	
PS 4.1a The Sun is a major source of energy for Earth. Other sources of energy include nuclear and geothermal energy.	○	○	○	○	○	★			★	✓
PS 4.1b Fossil fuels contain stored solar energy and are considered nonrenewable resources. They are a major source of energy in the United States. Solar energy, wind, moving water, and biomass are some examples of renewable energy resources.	○	○	○	○	○	★			★	✓
PS 4.1c Most activities in everyday life involve one form of energy being transformed into another. For example, the chemical energy in gasoline is transformed into mechanical energy in an automobile engine. Energy, in the form of heat, is almost always one of the products of energy transformations.	○	○	○	○	○	★			★	★
PS 4.1d Different forms of energy include heat, light, electrical, mechanical, sound, nuclear, and chemical. Energy is transformed in many ways.	★	★	★	★	★	✓			★	★
PS 4.1e Energy can be considered to be either kinetic energy, which is the energy of motion, or potential energy, which depends on relative position.	★	★	★	★	★	✓			★	★

★ Standard Covered

○ Standard to be covered

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Chapter 10: Energy	Review Skill									
	Mastered Skill									
	Lessons	47	48	49	50	51	52	NA	Chap Rev	End Rev
PS 4.2a Heat moves in predictable ways, flowing from warmer objects to cooler ones, until both reach the same temperature.		○	★	✓	✓	✓	✓		★	✓
PS 4.2b Heat can be transferred through matter by the collisions of atoms and/or molecules (conduction) or through space (radiation). In a liquid or gas, currents will facilitate the transfer of heat (convection).		○	★	✓	✓	✓	✓		★	★
PS 4.2d Most substances expand when heated and contract when cooled. Water is an exception, expanding when changing to ice.		○	★	✓	✓	✓	✓		✓	✓
PS 4.4a Different forms of electromagnetic energy have different wavelengths. Some examples of electromagnetic energy are microwaves, infrared light, visible light, ultraviolet light, X-rays, and gamma rays.		○	○	★	✓	✓	✓		★	✓
PS 4.4b Light passes through some materials, sometimes refracting in the process. Materials absorb and reflect light, and may transmit light. To see an object, light from that object, emitted by or reflected from it, must enter the eye.		○	○	★	✓	✓	✓		★	★
PS 4.4c Vibrations in materials set up wave-like disturbances that spread away from the source. Sound waves are an example. Vibrational waves move at different speeds in different materials. Sound cannot travel in a vacuum.		○	○	○	★	✓	✓		★	★
PS 4.4d Electrical energy can be produced from a variety of energy sources and can be transformed into almost any other form of energy.		○	○	○	○	★	✓		★	✓
PS 4.4e Electrical circuits provide a means of transferring electrical energy.		○	○	○	○	★	✓		★	★
PS 4.5a Energy cannot be created or destroyed, but only changed from one form into another.		○	○	○	○	○	★		✓	✓
PS 4.5b Energy can change from one form to another, although in the process some energy is always converted to heat. Some systems transform energy with less loss of heat than others.		○	○	○	○	○	★		✓	✓

Chapter 11: Force and Motion	Review Skill									
	Mastered Skill									
	Lessons	53	54	55	56	57	NA	NA	Chap Rev	End Rev
PS 4.4f Without touching them, material that has been electrically charged attracts uncharged material, and may either attract or repel other charged material.		○	○	★	✓	✓			★	✓
PS 4.4g Without direct contact, a magnet attracts certain materials and either attracts or repels other magnets. The attractive force of a magnet is greatest at its poles.		○	○	★	✓	✓			★	✓
PS 5.1a The motion of an object is always judged with respect to some other object or point. The idea of absolute motion or rest is misleading.		★	✓	✓	✓	✓			★	✓
PS 5.1b The motion of an object can be described by its position, direction of motion, and speed.		★	✓	✓	✓	✓			★	★
PS 5.1c An object's motion is the result of the combined effect of all forces acting on the object. A moving object that is not subjected to a force will continue to move at a constant speed in a straight line. An object at rest will remain at rest.		★	✓	✓	✓	✓			★	✓
PS 5.1d Force is directly related to an object's mass and acceleration. The greater the force, the greater the change in motion.		★	✓	✓	✓	✓			★	★
PS 5.1e For every action there is an equal and opposite reaction.		★	✓	✓	✓	✓			✓	✓
PS 5.2a Every object exerts gravitational force on every other object. Gravitational force depends on how much mass the objects have and on how far apart they are. Gravity is one of the forces acting on orbiting objects and projectiles.		○	★	✓	✓	✓			★	★
PS 5.2b Electric currents and magnets can exert a force on each other.		○	○	★	✓	✓			★	★
PS 5.2c Machines transfer mechanical energy from one object to another.		○	○	○	○	★			★	★
PS 5.2d Friction is a force that opposes motion.		○	○	○	★	✓			★	★
PS 5.2e A machine can be made more efficient by reducing friction. Some common ways of reducing friction include lubricating or waxing surfaces.		○	○	○	★	✓			★	✓
PS 5.2f Machines can change the direction or amount of force, or the distance or speed of force required to do work.		○	○	○	○	★			★	★
PS 5.2g Simple machines include a lever, a pulley, a wheel and axle, and an inclined plane. A complex machine uses a combination of interacting simple machines, e.g., a bicycle.		○	○	○	○	★			★	★

★ Standard Covered	○ Standard to be covered	✓ Standard previously covered
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Correlation of the Performance Tasks to the New York State Learning Standards and Major Understandings

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Performance Task (Continued)	Review Skill													
	Mastered Skill													
	Chapter		1	2	3	4	5	6	7	8	9	10	11	
T1.3 Analysis, Inquiry, and Design: Engineering Design Consider constraints and generate several ideas for alternative solutions, using group and individual ideation techniques (group discussion, brainstorming, forced connections, role play); defer judgment until a number of ideas have been generated; evaluate (critique) ideas; and explain why the chosen solution is optimal.														
T1.3a Generate ideas for alternative solutions.	○	○	○	○	○	○	○	★	✓	★	★	✓		
T1.3b Evaluate alternatives based on the constraints of design.	○	○	○	○	○	○	○	★	✓	★	★	✓		
T1.4 Analysis, Inquiry, and Design: Engineering Design Develop plans, including drawings with measurements and details of construction, and construct a model of the solution, exhibiting a degree of craftsmanship.														
T1.4a Design and construct a model of the product or process.	○	○	○	○	○	○	○	○	★	✓	✓	✓		
T1.4b Construct a model of the product or process.	○	○	○	○	○	○	○	○	★	✓	✓	✓		
T1.5 Analysis, Inquiry, and Design: Engineering Design In a group setting, test their solution against design specifications, present and evaluate results, describe how the solution might have been modified for different or better results, and discuss trade-offs that might have to be made.														
T1.5a Test a design.	○	○	○	○	○	○	○	○	○	○	★	✓		
T1.5b Evaluate a design.	○	○	○	○	○	○	○	★	✓	★	★	✓		
6.1.1 Interconnectedness: Systems Thinking Describe the differences between dynamic systems and organizational systems.	○	○	○	★	✓	✓	✓	✓	✓	✓	✓	✓		
6.1.2 Interconnectedness: Systems Thinking Describe the differences and similarities among engineering systems, natural systems, and social systems.	○	○	○	○	○	○	○	○	○	○	○	○	★	
6.1.3 Interconnectedness: Systems Thinking Describe the differences between open- and closed-loop systems.	○	○	○	○	○	○	★	✓	✓	✓	✓	✓		
6.1.4 Interconnectedness: Systems Thinking Describe how the output from one part of a system (which can include material, energy or information) can become the input to other parts.	○	○	○	○	○	○	★	✓	✓	✓	✓	✓		
6.2.1 Interconnectedness: Models Select an appropriate model to begin the search for answers of solutions to a question or problem.	○	○	○	○	○	○	○	○	○	○	○	○	★	
6.2.2 Interconnectedness: Models Use models to study processes that cannot be studied directly (e.g., when the real process is too slow, too fast, or too dangerous for direct observation).	○	★	✓	★	★	✓	✓	✓	✓	✓	✓	✓		
6.2.3 Interconnectedness: Models Demonstrate the effectiveness of different models to represent the same thing and the same model to represent different things.	○	○	○	○	○	○	○	○	○	★	✓	★		

★ Standard Covered	○ Standard to be covered	✓ Standard previously covered
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Performance Task (Continued)	Review Skill										
	Mastered Skill										
	Chapter										
	1	2	3	4	5	6	7	8	9	10	11
6.3.1 Interconnectedness: Magnitude and Scale Cite examples of how different aspects of natural and designed systems change at different rates with changes in scale.	★	★	✓	✓	✓	✓	✓	★	✓	✓	✓
6.3.2 Interconnectedness: Magnitude and Scale Use powers of ten notation to represent very small and very large numbers.	○	○	○	○	○	○	★	✓	★	✓	✓
6.4.1 Interconnectedness: Equilibrium and Stability Describe how feedback mechanisms are used in both designed and natural systems to keep changes within desired limits.	○	○	★	✓	✓	★	✓	✓	✓	✓	✓
6.4.2 Interconnectedness: Equilibrium and Stability Describe changes within equilibrium cycles in terms of frequency or cycle length and determine the highest and lowest values when they occur.	○	○	★	✓	✓	✓	✓	✓	✓	✓	✓
6.5.1 Interconnectedness: Patterns of Change Use simple linear equations to represent how a parameter changes with time.	○	○	★	✓	✓	✓	✓	✓	✓	✓	✓
6.5.2 Interconnectedness: Patterns of Change Observe patterns of change in trends or cycles and make predictions on what might happen in the future.	○	○	★	✓	✓	✓	✓	✓	✓	✓	✓
6.6.1 Interconnectedness: Optimization Determine the criteria and constraints and make trade-offs to determine the best decision.	○	○	○	○	○	○	★	★	★	✓	✓
6.6.2 Interconnectedness: Optimization Use graphs of information for a decision-making problem to determine the optimum solution.	○	○	★	✓	✓	✓	✓	✓	✓	✓	✓
7.1.1 Interdisciplinary Problem Solving: Connections Analyze science/technology/society problems and issues at the local level and plan and carry out a remedial course of action.	○	○	○	○	○	★	✓	✓	✓	✓	✓
7.1.2 Interdisciplinary Problem Solving: Connections Make informed consumer decisions by seeking answers to appropriate questions about products, services, and systems; determining the cost/benefit and risk/benefit tradeoffs; and applying this knowledge to a potential purchase.	★	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.1.4 Interdisciplinary Problem Solving: Connections Describe and explain phenomena by designing and conducting investigations involving systematic observations, accurate measurements, and the identification and control of variables; by inquiring into relevant mathematical ideas; and by using mathematical and technological tools and procedures to assist in the investigation	★	✓	★	✓	✓	✓	✓	★	✓	✓	✓
7.2.1 Interdisciplinary Problem Solving: Strategies Students participate in an extended, culminating mathematics, science, and technology project.	★	★	★	★	★	★	★	★	★	★	★

★ Standard Covered

○ Standard to be covered

✓ Standard previously covered