

Course Description:

Science 6 A covers a combination of earth & space science and physical science topics. This course covers concepts of the scientific method, forces and gravity, and an in-depth coverage of the stars, the Earth, the Moon, and the structure of our Solar System. Students will work on developing skills in data recording, classifying, measuring, observing, hypothesizing, analyzing, evaluation and inferring.

Module	Lesson Title	Objectives
<i>Introduction to Science</i>	What is Science?	<ul style="list-style-type: none"> • Explain what science is and why it is important to us.
	The Scientific Method	<ul style="list-style-type: none"> • Describe the steps of the scientific method and understand their purpose. • Design and conduct an experiment using the scientific method.
	Variable and Constant Factors	<ul style="list-style-type: none"> • Define variable and constant factors. • Identify variable and constant factors.
	The Metric System	<ul style="list-style-type: none"> • Demonstrate how to convert base 10's within the metric system. • Compute conversions between the metric system and the U.S. Customary system.
	Measuring	<ul style="list-style-type: none"> • Explain why it is important to use the International system of units. • Choose the appropriate SI units.

Module	Lesson Title	Objectives
	Measuring Distance, Area, and Volume	<ul style="list-style-type: none"> • Calculate area and volume.
	Matter	<ul style="list-style-type: none"> • Define atom, element, and compound. • Differentiate between extensive and intensive properties. • Compare the four states of matter.
	Mass, Volume, and Density	<ul style="list-style-type: none"> • Find metric volume, mass, and density. • Explain the relationship between mass, volume and density.
<i>Forces and Gravity</i>	Force of Gravity	<ul style="list-style-type: none"> • Learn how to apply Newton’s Law of Gravity to mass and distance of 2 bodies. • Learn what microgravity is. • Learn about Sir Isaac Newton and his legacy in science.
	Force	<ul style="list-style-type: none"> • Differentiate between contact and non-contact forces.
	Balanced and Unbalanced Forces and Vectors	<ul style="list-style-type: none"> • Draw and analyze vectors that represent forces. • Describe balanced and unbalanced forces.
	Mass, Weight and Gravity	<ul style="list-style-type: none"> • Differentiate between mass, weight and gravity.

Module	Lesson Title	Objectives
	Center of Gravity	<ul style="list-style-type: none"> • Explain the concept of center of gravity.
<i>The Stars</i>	Astronomy	<ul style="list-style-type: none"> • Explain the nature of astronomy. • Explain the concept of the Universe. • Describe the life of a star.
	Stars	<ul style="list-style-type: none"> • Describe the life of a star.
	Stars with Planets	<ul style="list-style-type: none"> • Have an understanding of planets orbiting distant stars called exoplanets. • Be able to describe the two methods used in confirming the existence of planets orbiting distant stars. • Will have a basic knowledge of the types of planets found orbiting distant stars. • Learn what the "habitable zone" is and why astronomers are most interested in planets orbiting in this zone.
	Constellations	<ul style="list-style-type: none"> • Explain how the constellations got their names and why they are important. • Be able to locate the North Star by using constellations. • Be able to locate Orion and use it as a signpost to locate major stars. • Understand the significance of the celestial poles and equator in the night sky. • Be able to explain why Polaris remains stationary and the rest of the star appear to move during the night.

Module	Lesson Title	Objectives
<i>The Earth</i>	Earth	<ul style="list-style-type: none"> • Understand the Earth is a sphere. • Define the terms hydrosphere, lithosphere, atmosphere, biosphere and magnetosphere.
	Globes and Maps	<ul style="list-style-type: none"> • Learn the advantages that flat maps have over globe maps and globe maps over flat maps. • Learn how to correctly write coordinate addresses. • Learn how to find distances using degrees of latitude and longitude. • Learn how to use longitude and latitude and meridians to find coordinates for locations on the Earth's surface.
	Earth's Rotation	<ul style="list-style-type: none"> • Explain why day and night occur on Earth. • Understand time zones and how to calculate times in different zones in the US. • Understand how the Earth's tilt affects the hours of daylight.
<i>The Moon</i>	Force of Gravity	<ul style="list-style-type: none"> • Learn how to apply Newton's Law of Gravity to mass and distance of 2 bodies. • Learn what microgravity is. • Learn about Sir Isaac Newton and his legacy in science.
	The Moon	<ul style="list-style-type: none"> • Understand meaning of a synchronous orbit. • Know about differences of visible side and far side of Moon. • Know theories of Moon's origin. • Learn what a satellite is.
	Movement of the Moon	<ul style="list-style-type: none"> • Know the names of the phases of the Moon in order during its 29.5 day orbit of the Earth. • Be able to recognize the phases of the Moon by their illuminated shapes. • Be able to describe the relative position of the Sun, Moon and Earth during the Moon's 29.5 orbit of the Earth

Module	Lesson Title	Objectives
	Tides	<ul style="list-style-type: none"> • Explain the relationship between the gravitational pull of the moon the changes in the ocean tides. • Understand how the phases of the Moon affect tides. • Know what causes spring tides, neap tides and a rara proxigean tide.
	Eclipses	<ul style="list-style-type: none"> • Know the alignment of the Sun, Earth and Moon during total, partial and anular eclipses of the Sun. • Know the alignment of the Sun, Earth and Moon during partial and total eclipses of the Moon. • Understand what an umbra, penumbra and antumbra is and their relationship to eclipses.
	Opaque Materials and Shadows	<ul style="list-style-type: none"> • Learn what the characteristics of opaque materials are. • Learn about the two components of shadows: umbra and penumbra.
<i>The Solar System</i>	The Movement of the Earth	<ul style="list-style-type: none"> • Understand how the Earth is moving celestially in four different ways simultaneously. • Be able to describe the different movements of the Earth in relation to the Solar System, the Milky Way Galaxy and the Local Group of galaxies.
	The Seasons	<ul style="list-style-type: none"> • Explain the relationship between Earth's tilt on its axis and yearly orbit to the seasons. • Be able to explain a solstice and equinox. • Know what the Tropic of Cancer and Tropic of Capricorn represent.
	The Sun	<ul style="list-style-type: none"> • Know the six layers of the Sun and their order starting with the core. • Have a knowledge of the nuclear fusion process that powers the Sun. • Be able to describe sunspots, flares, prominences and solar winds.
	The Planets	<ul style="list-style-type: none"> • Be able to organize the planets in their correct order from the closest to the furthest. • Have knowledge of the characteristics of the gas giants (outer planets)

Module	Lesson Title	Objectives
		<ul style="list-style-type: none"> • Have knowledge of the characteristics of the the terrestrial planets (inner planets) . • Knowledge of the asteroids in orbit outside Mars and in Jupiter's orbit.
	Orbits of the Planets	<ul style="list-style-type: none"> • Explain what is meant by an elliptical orbit. • Understand the two forces that define planetary orbits and how they work. • Know what is needed to have a circular orbit. • Be able to explain what happens when an orbiting body achieves escape velocity. • Explain what is meant by an elliptical planetary orbit and a planets aphelion and perihelion.
	Asteroids, Meteors and Comets	<ul style="list-style-type: none"> • Know the structure and composition of the asteroids, comets and meteors. • Know the differences between asteroids, comets and meteors. • Know where meteors, asteroids and comets originate. • Understand the orbits of asteroids, meteors and comets.
	Dwarf Planets	<ul style="list-style-type: none"> • Learn the differences between dwarf planets and planets. • Learn the differences between dwarf planets and small solar system bodies. • Understand how hydrostatic equilibrium occurs in celestial objects.

Course Description:

Science 6 B contains topics if life science, earth & space science, and physical science. It covers topics of ecosystems, energy flow in life systems, plants, energy types (kinetic, potential), resources, and heat. Students will work on developing skills in data recording, classifying, measuring, observing, hypothesizing, analyzing, evaluation and inferring.

Module	Lesson Title	Objectives
<i>Ecosystems</i>	The Environment	<ul style="list-style-type: none"> Define environment. Define environ.
	Observation and Change	<ul style="list-style-type: none"> Define and practice the skill of observation. Demonstrate your observation skills.
	Biology	<ul style="list-style-type: none"> Define and understand biology. Select and research a Biology career.
	Ecology	<ul style="list-style-type: none"> Define ecology. Define organism. Construct and observe an ecosystem.
	Life and Living Things	<ul style="list-style-type: none"> Discuss the five characteristics shared by all living things.
	Ecology and the Environment	<ul style="list-style-type: none"> Define ecology.
	Ecosystems	<ul style="list-style-type: none"> Describe what an ecosystem is.
	Habitat	<ul style="list-style-type: none"> Define habitat. Explain the components of your habitat.

Module	Lesson Title	Objectives
	Populations	<ul style="list-style-type: none"> Define population, census and sample. Explain how scientists use population studies, and how populations change.
	Communities	<ul style="list-style-type: none"> Define community and distinguish between biotic and abiotic communities.
	The Balance of Nature	<ul style="list-style-type: none"> Explain how both natural and man-made events and activities affect the balance of nature.
	Biodiversity	<ul style="list-style-type: none"> Explain the term biodiversity. Explain why biodiversity is important to the health of life on Earth.
<i>The Energy Flow of Life</i>	Metamorphosis	<ul style="list-style-type: none"> Describe the process of metamorphosis which some animals go through.
	Animal Behavior	<ul style="list-style-type: none"> Explain the difference between instinctive and learned behavior. Characterize learned vs. instinctive behaviors.
	Animal Food	<ul style="list-style-type: none"> Describe the ways that animals eating patterns are classified.
	An Animal's Niche	<ul style="list-style-type: none"> Define niche. Discuss how niches vary among species.
	Food Chain	<ul style="list-style-type: none"> Describe the components of a food chain Generate examples of a food chain.
	Food Webs	<ul style="list-style-type: none"> Define a food web. Differentiate between a food web and a food chain.
<i>Green Plants</i>	Green Plants	<ul style="list-style-type: none"> Describe basic green plants and seeds.

Module	Lesson Title	Objectives
	The Seed	<ul style="list-style-type: none"> Describe the basic anatomy and biological composition of a seed. List the basic requirements for seed germination and growth. Explain how a seed grows.
	Seed Dispersal	<ul style="list-style-type: none"> Describe several methods of seed dispersal common in nature.
	The Seedling	<ul style="list-style-type: none"> Identify and describe the structure and function of the basic parts of a green plant.
	Soil and Nutrients	<ul style="list-style-type: none"> Identify the function of soil. Describe the difference between "dirt" and living soil.
	Fertilizers, Bacteria and Compost	<ul style="list-style-type: none"> Describe how plants use nutrients. Explain what is in compost.
	Stems and Transportation	<ul style="list-style-type: none"> Describe the difference between herbaceous and woody plants Explain how water and nutrients are transported through specialized plant tissues.
	Leaves	<ul style="list-style-type: none"> Describe the function of leaves.
	Photosynthesis	<ul style="list-style-type: none"> Understand and explain the importance of the process of photosynthesis to all life on Earth. Describe the process of photosynthesis and write a scientific equation which represents it.
	Transpiration	<ul style="list-style-type: none"> Explain what transpiration is. Explain how transpiration works.

Module	Lesson Title	Objectives
	Buds and Flowers	<ul style="list-style-type: none"> Identify and describe the structure and function of buds. Identify the structures of a flower.
	Plant Reproduction	<ul style="list-style-type: none"> Describe and define the main parts of a flower. Describe how flowers reproduce through pollination.
	Plants Sense and Response	<ul style="list-style-type: none"> Explain why plants turn their leaves towards the light. Explain why plant leaves grow up when light is absent.
Energy	Energy	<ul style="list-style-type: none"> Define energy. Distinguish among eight different forms of energy: thermal, radiant, electrical, chemical, mechanical, gravitational, sound, and nuclear.
	Kinetic Energy and Potential Energy	<ul style="list-style-type: none"> Define kinetic energy and potential energy. Give real world examples of kinetic and potential energy.
	The Transformation of Energy	<ul style="list-style-type: none"> Explain energy transformations. Show that no energy transformation is 100% efficient.
	The Law of Conservation of Energy	<ul style="list-style-type: none"> Investigate the law of conservation of energy. Analyze common applications using the law of conservation of energy.
	Energy Sources: Non-Renewable	<ul style="list-style-type: none"> Describe non-renewable energy sources. List the various kinds of non-renewable fuels humans use for energy. Explain some of the environmental issues connected with various energy sources.

Module	Lesson Title	Objectives
	Energy Sources: Renewable	<ul style="list-style-type: none"> Describe renewable energy sources. List the various kinds of renewable fuels humans use for energy. Know what the advantages and limitations of renewable sources of energy are.
	Fossil Fuels	<ul style="list-style-type: none"> Explain different ways energy is used in our world.
Heat	Thermodynamics	<ul style="list-style-type: none"> Apply the Laws of Thermodynamics
	Heat	<ul style="list-style-type: none"> Explain heat.
	Thermal Expansion and Contraction	<ul style="list-style-type: none"> Explain thermal expansion and contraction.
	Temperature	<ul style="list-style-type: none"> Explain temperature. Differentiate between Fahrenheit and Celsius scales.
	Pressure	<ul style="list-style-type: none"> Explain pressure.
Newton's Laws	Newton's First Law of Motion	<ul style="list-style-type: none"> Explain Newton's first law of motion.
	Friction	<ul style="list-style-type: none"> Explain Friction.
	Projectiles	<ul style="list-style-type: none"> Explain the basic concepts that involve projectiles.

Module	Lesson Title	Objectives
	Velocity	<ul style="list-style-type: none"> • Differentiate between velocity and speed. • Solve simple velocity and speed problems.
	Acceleration	<ul style="list-style-type: none"> • Explain acceleration. • Calculate acceleration.
	Newton's Second Law of Motion	<ul style="list-style-type: none"> • Explain Newton's second law of motion.
	Work	<ul style="list-style-type: none"> • Explain the principles of work.
	Power	<ul style="list-style-type: none"> • Explain power.
	Newton's Third Law of Motion	<ul style="list-style-type: none"> • Explain Newton's third law of motion.

Course Description:

Science 6 covers life science. It is the study of cells, heredity, biological populations and their changes over time. It includes human biology, ecology, diversity of organisms and the history and nature of science. In this course, students will have the opportunity to conduct and design experiments, identify and classify organisms. Students will work on developing skills in data recording, classifying, measuring, observing, hypothesizing, analyzing, evaluation and inferring.

Materials Needed:

- 2 erasers
- 2 paperclips
- 2 pens
- 2 Clear jars
- 2-liter soda bottle (empty)
- 2 Small Plants
- 3 Different Flowers
- 7-up 16 oz soda bottle (empty)
- Baking Dish
- Balloon
- Boxes
- (2) Bulb of Garlic
- Clear plastic shoe box
- Different types of fruit
- Dirt
- Disposable camera or digital camera
- Fresh bunch of Celery w/leaves
- Food Coloring (red, yellow or blue)
- Funnel
- 2 Glass Jars
- Gelatin Dessert
- Head of cabbage or Brussels sprout
- Kitchen Scale
- Knife
- Light w/incandescent bulb (desk lamp)
- Magnifying glass Microscope
- Notebook
- Oven
- Paints
- Crayons or colored pencils
- Packet of Yeast
- Pebbles or small rocks
- Photo album or scrap book
- Plastic cups
- Poster paper
- Potting Soil
- Printer
- Raisins
- Radish Seeds
- Seeds
- Seedlings
- Scissors
- Small piece of steel wool
- Spinach (1 lb fresh)
- Sugar
- Tall Glass
- Trowel or small shovel
- Watercolors or colored pencils
- Worms
- Ziploc bag

Module	Lesson Title	Objectives
<i>The Basics of Life</i>	What is Science?	<ul style="list-style-type: none"> Explain what science is and why it is important to us.
	The Scientific Method	<ul style="list-style-type: none"> Describe the steps of the scientific method and understand their purpose. Design and conduct an experiment using the scientific method.
	The Environment	<ul style="list-style-type: none"> Define environment. Define environ.
	Observation and Change	<ul style="list-style-type: none"> Define and practice the skill of observation. Demonstrate your observation skills.
	Biology	<ul style="list-style-type: none"> Define and understand biology. Select and research a Biology career.
	Ecology	<ul style="list-style-type: none"> Define ecology. Define organism. Construct and observe an ecosystem.
	Life and Living Things	<ul style="list-style-type: none"> Discuss the five characteristics shared by all living things.

Module	Lesson Title	Objectives
<i>Classifications of Living Things</i>	Groups of Living Things	<ul style="list-style-type: none"> • Explain the system of classification.
	The Plant Kingdom	<ul style="list-style-type: none"> • Distinguish between and give examples of mosses, ferns, gymnosperms and angiosperms. • Define and explain the term pioneer organism.
	The Animal Kingdom	<ul style="list-style-type: none"> • Describe the members of the animal kingdom. • Explain how animals are classified.
	Protists	<ul style="list-style-type: none"> • Describe the main characteristics of protists.
	Monera	<ul style="list-style-type: none"> • Identify monera. • Describe the main characteristics of monera.
	Fungi	<ul style="list-style-type: none"> • Identify fungi, recognize their main characteristics, and give examples of each.

Module	Lesson Title	Objectives
	Viruses	<ul style="list-style-type: none"> • Identify viruses and recognize their main characteristics. • Give examples of different viruses.
<i>Discovering a Cell</i>	Cells	<ul style="list-style-type: none"> • Describe a cell. • Discuss the difference between single celled and multi-celled organisms.
	Cell Structure and Function	<ul style="list-style-type: none"> • Describe the basic structure of a cell. • Explain the function of a cell.
	Cell Organelle	<ul style="list-style-type: none"> • Identify different cell organelles.
	Cell Division	<ul style="list-style-type: none"> • Explain and describe the basics of cell division.
	Asexual Reproduction	<ul style="list-style-type: none"> • Describe the basics of asexual reproduction. • Compare binary fission, budding and sporulation.

Module	Lesson Title	Objectives
	Sexual Reproduction	<ul style="list-style-type: none"> Define and describe the basics of sexual reproduction in most animals and some plants.
Exploring Green Plants	Green Plants	<ul style="list-style-type: none"> Describe basic green plants and seeds.
	The Seed	<ul style="list-style-type: none"> Describe the basic anatomy and biological composition of a seed. List the basic requirements for seed germination and growth. Explain how a seed grows.
	Seed Dispersal	<ul style="list-style-type: none"> Describe several methods of seed dispersal common in nature.
	The Seedling	<ul style="list-style-type: none"> Identify and describe the structure and function of the basic parts of a green plant.
	Soil and Nutrients	<ul style="list-style-type: none"> Identify the function of soil. Describe the difference between "dirt" and living soil.
	Fertilizers, Bacteria and Compost	<ul style="list-style-type: none"> Describe how plants use nutrients. Explain what is in compost.

Module	Lesson Title	Objectives
	Stems and Transportation	<ul style="list-style-type: none"> Describe the difference between herbaceous and woody plants Explain how water and nutrients are transported through specialized plant tissues.
	Leaves	<ul style="list-style-type: none"> Describe the function of leaves.
	Photosynthesis	<ul style="list-style-type: none"> Understand and explain the importance of the process of photosynthesis to all life on Earth. Describe the process of photosynthesis and write a scientific equation which represents it.
	Transpiration	<ul style="list-style-type: none"> Explain what transpiration is. Explain how transpiration works.
	Buds and Flowers	<ul style="list-style-type: none"> Identify and describe the structure and function of buds. Identify the structures of a flower.
	Plant Reproduction	<ul style="list-style-type: none"> Describe and define the main parts of a flower. Describe how flowers reproduce through pollination.

Module	Lesson Title	Objectives
	Plants Sense and Response	<ul style="list-style-type: none"> • Explain why plants turn their leaves towards the light. • Explain why plant leaves grow up when light is absent.
<i>Invertebrates</i>	Sponges	<ul style="list-style-type: none"> • Describe the basic traits of sponges.
	Cnidaria	<ul style="list-style-type: none"> • List the basic traits of cnidarian. • List examples of cnidaria.
	Worms	<ul style="list-style-type: none"> • Describe the basic traits of worms.
	Mollusks	<ul style="list-style-type: none"> • Describe the traits of mollusks.
	Arthropods	<ul style="list-style-type: none"> • Describe the characteristics of arthropods.
	Echinoderms	<ul style="list-style-type: none"> • Describe the characteristics of echinoderms.

Module	Lesson Title	Objectives
Vertebrates	Chordates	<ul style="list-style-type: none"> • Describe the characteristics of chordates • Explain the difference between a vertebrate and an invertebrate, and give examples of each.
	Fish	<ul style="list-style-type: none"> • Describe fish.
	Amphibians	<ul style="list-style-type: none"> • Describe the characteristics of amphibians.
	Reptiles	<ul style="list-style-type: none"> • Describe reptiles • Define extinction and endangered species.
	Birds	<ul style="list-style-type: none"> • Describe birds.
	Mammals	<ul style="list-style-type: none"> • Describe the three groups of mammals.

Course Description:

Science 6B is the continuation of life science. It is the study of cells, heredity, biological populations and their changes over time. It includes human biology, ecology, diversity of organisms and the history and nature of science. In this course, students will have the opportunity to conduct and design experiments, identify and classify organisms. Students will work on developing skills in data recording, classifying, measuring, observing, hypothesizing, analyzing, evaluation and inferring.

Materials Needed:

- Ruler
- 6 Seedlings
- 6 Plastic Cups
- Tablespoon
- Lemon juice
- Water
- Printer
- Old Magazines or Newspapers
- Scissors
- Cardboard
- Art supplies (pains, colored pencils)
- Clock with second hand
- Graph paper
- Poster paper
- CD or Radio
- Food
- Ping Pong Paddle or Sandpaper

Module	Lesson Title	Objectives
<i>Life Connections</i>	Animal Life Cycles	<ul style="list-style-type: none"> • Describe the basics of animal reproduction.
	The Human Life Cycle	<ul style="list-style-type: none"> • Describe the stages of the human life cycle.
	Heredity and Genetics	<ul style="list-style-type: none"> • Explain basic heredity and genetics.

Module	Lesson Title	Objectives
	Evolution	<ul style="list-style-type: none"> • Understand the theory of evolution. • Explain an example of evolution.
	Metamorphosis	<ul style="list-style-type: none"> • Describe the process of metamorphosis which some animals go through.
	Animal Behavior	<ul style="list-style-type: none"> • Explain the difference between instinctive and learned behavior. • Characterize learned vs. instinctive behaviors.
	Animal Food	<ul style="list-style-type: none"> • Describe the ways that animals eating patterns are classified.
	An Animal's Niche	<ul style="list-style-type: none"> • Define niche. • Discuss how niches vary among species.
	Food Chain	<ul style="list-style-type: none"> • Describe the components of a food chain • Generate examples of a food chain.
	Food Webs	<ul style="list-style-type: none"> • Define a food web. • Differentiate between a food web and a food chain.

Module	Lesson Title	Objectives
<i>Our Complex Ecosystems</i>	Ecology and the Environment	<ul style="list-style-type: none"> Define ecology.
	Ecosystems	<ul style="list-style-type: none"> Describe what an ecosystem is.
	Habitat	<ul style="list-style-type: none"> Define habitat. Explain the components of your habitat.
	Populations	<ul style="list-style-type: none"> Define population, census and sample. Explain how scientists use population studies, and how populations change.
	Communities	<ul style="list-style-type: none"> Define community and distinguish between biotic and abiotic communities.
	The Balance of Nature	<ul style="list-style-type: none"> Explain how both natural and man-made events and activities affect the balance of nature.

Module	Lesson Title	Objectives
	Global Warming	<ul style="list-style-type: none"> Explain how people effect global warming.
	Extinction	<ul style="list-style-type: none"> Understand how species may become extinct and how this may be prevented.
	Endangered Species	<ul style="list-style-type: none"> Explain how species become endangered.
	Saving Species	<ul style="list-style-type: none"> Describe how it might be possible to prevent species from being endangered.
<i>The Digestive System</i>	The Digestive System	<ul style="list-style-type: none"> Identify and describe the major parts of the human digestive system.
	Other Organs Important in Digestion	<ul style="list-style-type: none"> Explain the functions of the major parts of the digestive system.

Module	Lesson Title	Objectives
	Food and Oxidation	<ul style="list-style-type: none"> Explain how our bodies use food for energy and nutrition.
	Carbohydrates, Fats and Proteins	<ul style="list-style-type: none"> Understand how vitamins and minerals are used in our bodies.
	Sources of Vitamins and Minerals	<ul style="list-style-type: none"> List a variety of foods that provide specific vitamins and minerals.
	Proteins	<ul style="list-style-type: none"> Describe what proteins are made of and explain the importance of complete proteins in your diet.
	Fiber in Food	<ul style="list-style-type: none"> Explain what food fiber is and why it is important in human nutrition.
<i>Exploring the Respiratory and Circulatory Systems</i>	The Respiratory System	<ul style="list-style-type: none"> Name the parts of the respiratory system.
	The Sinuses	<ul style="list-style-type: none"> Describe the function of each part of the respiratory system.

Module	Lesson Title	Objectives
	The Trachea	<ul style="list-style-type: none"> • Explain the function of the trachea.
	Bronchi and Alveoli	<ul style="list-style-type: none"> • Explain the function of the Bronchi and alveoli.
	The Diaphragm	<ul style="list-style-type: none"> • Describe the function of each part of the respiratory system.
	The Circulatory System	<ul style="list-style-type: none"> • Name the parts of the circulatory system, and describe how it works.
	The Heart	<ul style="list-style-type: none"> • Explain the function of the heart. • Name the parts of the heart.
	Blood	<ul style="list-style-type: none"> • Explain the function of blood.
<i>The Endocrine, Skeletal and Nervous Systems</i>	The Lymphatic System	<ul style="list-style-type: none"> • Understand and describe the basic components of the lymphatic and endocrine systems.

Module	Lesson Title	Objectives
	Glands in the Endocrine System	<ul style="list-style-type: none"> Explain the endocrine glands in the human body.
	The Skeletal System	<ul style="list-style-type: none"> Identify and describe the major parts of the skeletal system and their functions.
	Bones	<ul style="list-style-type: none"> Explain the function of bones.
	Ligaments and Joints	<ul style="list-style-type: none"> Describe the different types of joints in the human body.
	The Muscular System	<ul style="list-style-type: none"> Define and describe the three types of muscles in the human body, and identify some of the major muscles of the body.
	Exercise	<ul style="list-style-type: none"> Understand how muscles work and how to keep them healthy.
	The Nervous System	<ul style="list-style-type: none"> Identify and describe the basic parts and tissues of the human nervous system.

Module	Lesson Title	Objectives
	The Spinal Cord	<ul style="list-style-type: none"> • Explain the function of the spinal cord.
	The Brain	<ul style="list-style-type: none"> • Explain how messages are sent and received throughout the body.
<i>Exploring Your Senses</i>	Sight	<ul style="list-style-type: none"> • Define and describe the main sensory organs of the eyes.
	Hearing	<ul style="list-style-type: none"> • Define and describe the main sensory organs of the ears.
	Smell	<ul style="list-style-type: none"> • Define and describe the main sensory organs of the nose.
	Taste	<ul style="list-style-type: none"> • Define and describe the main sensory organs of the mouth.
	Touch	<ul style="list-style-type: none"> • Define and describe the main sensory organs of the skin.