

Grades 1–4 Detailed Table Of Contents

Grade 1

Unit One: LIFE SCIENCE
Chapter 1: Plants
Big Idea Plants are living things. They grow and change. Plants have many parts that God designed.
Lesson 1 What Are Plants?
Essential Learnings: 1.3C.1, 1.3C.2, K-4.C.1.b
Lesson 2 How Do Plants Grow and Change?
Essential Learnings: 1.3D.1, 1.3E.2, K-4.C.1.c, K-4.C.2.a
Chapter 2: Animals
Big Idea God must like variety, because He made so many kinds of animals. Scientists study ways that animals are alike and different to learn many things.
Lesson 1 What Are Animals?
Essential Learnings: 1.3A.1, 1.3A.2
Lesson 2 Which Animals Have a Backbone?
Essential Learning: 1.3A.1
Lesson 3 How Do Animals Grow and Change?
Essential Learnings: 1.3D.2, 1.3E.1, 1.3E.3
Chapter 3: Living Together
Big Idea When God made plants and animals, they made Earth a more pleasant place.
Lesson 1 Where Do Plants and Animals Live?
Essential Learnings: 1.3F.2, 1.3F.3
Lesson 2 Why Do Animals Need Plants?
Essential Learnings: 1.3B.2, 1.3B.3
Lesson 3 How Can You Care for Living Things?
Essential Learnings: 1.3B.1, 1.3F.1

Unit Two: THE HUMAN BODY
Chapter 4: Parts of Your Body
Big Idea Your body was designed by God. While some parts can be seen, other important parts of your body are inside where they can't be seen. If you want all of the parts to work together well, they must be taken care of. You should always take good care of your body.
Lesson 1 What Are Some Parts of Your Body?
Essential Learnings: 1.3C.5, K-4.C.1.b
Lesson 2 What Are Your Senses?
Essential Learnings: 1.3C.6, K-4.C.1.c
Lesson 3 How Do You Keep Your Body Clean?
Essential Learning: 1.5A.1
Chapter 5: Muscles
Big Idea Muscles are part of your body. They make other body parts move every day in many different ways.
Lesson 1 What Are Muscles?
Essential Learning: 1.3C.5
Lesson 2 How Can You Have Healthy Muscles?
Essential Learning: 1.5A.1
Lesson 3 Why Is Exercise Important?
Essential Learning: 1.5A.1
Chapter 6: Bones
Big Idea Why do you have bones? God made your bones to work together with other parts of your body. Bones are alive. They enable you to play, work, and move. Bones do other important things, too.
Lesson 1 What Are Bones?
Essential Learning: 1.3C.5
Lesson 2 Why Are Healthy Bones Important?
Essential Learning: K-4.F.1.b
Lesson 3 How Can You Keep Your Bones Safe?
Essential Learnings: K-4.F.1.b, 2.5C.1

Unit Three: EARTH AND SPACE SCIENCE
Chapter 7: Weather and Seasons
Big Idea God gives the world many types of weather. In some places, the weather changes a lot. In other places, the weather changes very little.
Lesson 1 What Is Weather?
Essential Learnings: 1.4B.1, 1.4B.2, K-4.D.3.b, K-4.D.2.b
Lesson 2 Where Do Clouds Come From?
Essential Learnings: 1.4B.7, 4.D.2
Lesson 3 What Are Seasons?
Essential Learnings: 1.4B.6, -4.D.3.b
Lesson 4 What Is Climate?
Essential Learnings: 1.4B.3, K-4.C.1.a
Chapter 8: Earth and Space
Big Idea When God created the heavens and Earth, He designed Earth to circle the Sun. He also created the parts of Earth to include air, water, rocks, and soil.
Lesson 1 What Things Are in the Sky?
Essential Learnings: K-4.D.2.a, 1.4C.4, 1.4C.5, 1.4C.1
Lesson 2 What Is Earth Like?
Essential Learnings: K-4.D.1.a, 1.4A.1

Unit Four: PHYSICAL SCIENCE
Chapter 9: Pushing and Pulling
Big Idea You can see objects move when they are pushed or pulled, but you cannot always see the type of force that is doing the pushing or pulling. God designed the laws that affect different types of forces.
Lesson 1 How Is Position Described?
Essential Learnings: K-4.B.2.a, K-4.D.2.a
Lesson 2 How Do Objects Move?
Essential Learnings: 1.2B.1, 1.2B.5
Lesson 3 What Causes Motion?
Essential Learnings: 1.2B.1, 1.2B.2, 1.2B.3, 1.2B.4
Lesson 4 What Are Machines?
Essential Learning: 1.2B.6
Chapter 10: Energy
Big Idea God created all things. His laws established the workings of things all around us. He even sparked the very energy that moves all things. We can see His work through the many things in our world.
Lesson 1 What Is Heat?
Essential Learnings: 1.2C.1, 1.2C.2, 1.2C.3
Lesson 2 What Is Sound?
Essential Learnings: 1.2C.3, 1.2C.4, 1.2C.5

Grade 2

Unit One: LIFE SCIENCE
Chapter 1: Plants and Animals
Big Idea God made many kinds of plants and animals. They have parts that help them live and grow.
Lesson 1 What Do All Plants Need?
Essential Learnings: 2.3A.1, 2.3C.1, 2.3E.2
Lesson 2 What Do the Parts of a Plant Do?
Essential Learnings: 2.3C.2, 2.3E.2, 2.3D.1
Lesson 3 Why Are Plants Important?
Essential Learnings: 2.3B.3, 2.3F.1
Lesson 4 What Do All Animals Need?
Essential Learnings: 2.3A.1
Lesson 5 How Are Animals Different?
Essential Learnings: 2.3F.2, 2.3E.1, 2.3E.3, 2.3D.2
Chapter 2: Plants and Animals Live Together
Big Idea Plants and animals affect one another and are affected by changes in the places they live. God cares for the living things He created, and we should do the same.
Lesson 1 Where Do Plants and Animals Live?
Essential Learnings: 2.3F.2, 2.3E.1, 2.3E.3, K-4.C.3.b
Lesson 2 What Are Food Chains and Food Webs?
Essential Learnings: 2.3B.2, K-4.C.3.a
Lesson 3 How Do People Affect the Environment?
Essential Learnings: 2.3F.1, 2.3B.3, 2.3B.1, 2.4A.3, K-4.C.3.b, K-4.C.3.d, K-4.F.4.b

Unit Two: THE HUMAN BODY
Chapter 3: Food and Your Body
Big Idea Your body gets energy and nutrients from the foods you eat. A healthy body and mind helps you do better work for Jesus.
Lesson 1 What Is Your Digestive System?
Essential Learnings: 2.3C.3, 2.3C.4, 2.3C.6
Lesson 2 What Are Some Types of Food?
Essential Learning: 2.5B.1
Lesson 3 What Is Good Nutrition?
Essential Learnings: 2.5A.1, 2.5B.1, K-4.F.1.c
Chapter 4: Body and Mind
Big Idea Your body and your mind are affected by your thoughts, beliefs, emotions, diet, and exercise. Your mental health affects how you view the world and care for the things God has created.
Lesson 1 How Does Your Nervous System Work?
Essential Learnings: 2.3C.6, 1.5E.1
Lesson 2 How Do You Communicate?
Essential Learning: 2.5G.2
Lesson 3 What Is Mental Health?
Essential Learnings: 1.5A.1, 2.5D.1, 2.5E.1, 2.5E.2
Chapter 5: Keeping Your Body Safe and Healthy
Big Idea We have faith that Jesus will watch over us. In the Bible, Jesus has told us that we are to take care of our bodies. There are many things that we can do to keep our bodies healthy and safe.
Lesson 1 How Can You Avoid Germs?
Essential Learnings: 2.5A.1, 2.5C.2, K-4.F.1.b
Lesson 2 Why Is Hygiene Important?
Essential Learnings: 2.5A.1, 2.5F.2, K-4.F.1.b
Lesson 3 What Are Common Safety Hazards?
Essential Learnings: 2.5C.1, K-4.F.1.b

Unit Three: EARTH AND SPACE SCIENCE
Chapter 6: Earth's Land, Air, and Water
Big Idea God made many landforms when He created Earth. The landforms on Earth's surface have changed over time and continue to change today. Some of these changes occur slowly, while others happen quickly.
Lesson 1 What Features Are on Earth's Surface?
Essential Learning: 2.4A.1
Lesson 2 What Are Rocks and Minerals?
Essential Learning: 2.4A.2
Lesson 3 How Does Earth's Surface Change?
Essential Learnings: 2.4B.1, 2.4B.2, 2.4B.3
Lesson 4 What Can We Learn from Fossils?
Essential Learnings: 2.4B.4, 2.4B.5
Chapter 7: Weather and Seasons
Big Idea The weather in our world is always changing. But God does not change. He helps us appreciate each season.
Lesson 1 How Is Weather Predicted?
Essential Learnings: Expand on 1.4B.2, Expand on 1.4B.1, K-4.D.3.b
Lesson 2 What Is the Water Cycle?
Essential Learning: 2.4B.8
Lesson 3 What Causes the Seasons?
Essential Learnings: 2.4B.7, K-4.D.3.c
Chapter 8: Space Science
Big Idea Earth—the home God created for us—is just one small part of His Universe.
Lesson 1 What Makes Up Our Solar System?
Essential Learning: 2.4C.2
Lesson 2 What Is the Universe?
Essential Learnings: 2.4C.3, 2.4C.4, 2.4C.1
Lesson 3 How Do We Explore Space?
Essential Learnings: 2.4C.5, 2.4C.6

Unit Four: PHYSICAL SCIENCE
Chapter 9: Properties of Matter
Big Idea Everything you can touch is made of matter. God created all matter. Different kinds of matter have different properties.
Lesson 1 What Is Matter?
Essential Learning: 2.2A.1
Lesson 2 What Are Solids, Liquids, and Gases?
Essential Learning: 2.2A.1
Lesson 3 How Does Matter Change?
Essential Learning: 2.2A.2
Chapter 10: Energy and Machines
Big Idea Energy comes in many forms. All energy obeys God's natural laws. You can see and hear some energy. This violinist is using energy as he plays the violin.
Lesson 1 What Is Energy?
Essential Learning: 2.2B.1
Lesson 2 What Is Thermal Energy?
Essential Learning: 2.2C.3
Lesson 3 What Are Sound and Light?
Essential Learnings: 2.2C.1, 2.2C.2
Lesson 4 What Are Simple Machines?
Essential Learning: 2.2B.2

Key: Multi-Grade Classroom Cycles 1–4

	Cycle 1	Cycle 2	Cycle 3	Cycle 4
1st Qtr Life Science	Classification and Animals	Cells and Genetics	Ecosystems and Adaptation	Classification and Plants
2nd Qtr Human Body Health	Body Systems 1 Lifestyle Challenge/Guided Inquiry Exercise program	Body Health 1 Lifestyle Challenge/Guided Inquiry Diet	Body Systems 2 Lifestyle Challenge/Guided Inquiry Sleep	Body Health 2 Lifestyle Challenge/Guided Inquiry Media
3rd Qtr Physical Science	Energy	Immune Disease Body and Lifestyle	Circulatory Respiratory Digestive Excretory	Nervous Drugs Health Resources First Aid & Safety
4th Qtr Earth and Space Science	Meteorology and Oceanography	Magnetism and Electricity	Force and Motion	Chemistry
		Geology	Space	Earth's Resources

Grade 3

Unit One: LIFE SCIENCE
Chapter 1: Living Things
Big Idea God designed living and nonliving things to exist together. Living things share many characteristics, but living things also differ in many ways. Both living and nonliving things are unique and important parts of God's Creation.
Lesson 1 What Is a Living Thing?
Essential Learnings: 3.3A.1, 3.3C.1, 3.3C.2, K-4.C.1.a
Lesson 2 What Are Some Kinds of Living Things?
Essential Learning: 3.3A.2
Lesson 3 What Is a Life Cycle?
Essential Learnings: 3.3D.2, K-4.C.2.a
Chapter 2: Plants
Big Idea God created many different kinds of plants. Plant parts work together to help the plant live, grow, and reproduce.
Lesson 1 What Are Some Plant Structures?
Essential Learnings: 3.3C.4, K-4.C.1.b
Lesson 2 How Do Plants Reproduce?
Essential Learnings: 3.3D.1, K-4.C.2.a
Lesson 3 How Do Plants Make Food?
Essential Learnings: 3.3C.3, 3.3B.2, K-4.C.3.a
Chapter 3: Places to Live
Big Idea God created animals and plants with the ability to adapt to many different environments when He created Earth. When sin entered the world, the world changed. The places the animals lived also changed. We must care for God's Creation and the plants and animals He made.
Lesson 1 What Is an Ecosystem?
Essential Learnings: 3.3B.3, 3.3B.1, K-4.C.1.a, K-4.F.4.a
Lesson 2 What Is Life Like in Forests?
Essential Learnings: K-4.C.1.a, 3.3F.2
Lesson 3 What Is Life Like in Dry Places?
Essential Learnings: K-4.C.1.a, 3.3F.2, K-4.C.3.b
Lesson 4 What Is Life Like in Wet Places?
Essential Learnings: K-4.C.1.a, 3.3F.2, K-4.C.3.b
Lesson 5 How Do People Affect the Environment?
Essential Learnings: 3.3B.4, 3.3B.5, K-4.F.4.c, 3.3F.1

Unit Two: THE HUMAN BODY
Chapter 4: Your Body's Health and Safety
Big Idea Making healthy choices improves health and protects us from harm. The Bible says in 1 Corinthians 6:19 that your body is the temple of God. A healthy body honors God and allows you to do the things He wants you to do.
Lesson 1 What Factors Affect Your Health?
Essential Learnings: 3.5C.2, 3.5E.2
Lesson 2 What Causes Disease?
Essential Learning: 3.5F.2
Lesson 3 What Is Your Immune System?
Essential Learnings: Know the parts and functions of the immune system. Know some ways that germs enter the body.
Chapter 5: A Healthy Heart
Big Idea God designed the human body so that all of its systems work together. Your heart is part of the circulatory system. It works hard, pumping blood to every cell in your body. It's important to keep your heart healthy and strong your whole life long.
Lesson 1 What Is Your Circulatory System?
Essential Learning: Know how much blood is in the body, what its components are, and what the functions of blood are.
Lesson 2 What Is Blood?
Essential Learning: Know the parts and functions of the circulatory system.
Lesson 3 How Do You Keep Your Heart Healthy?
Essential Learning: Know how to promote the health of your heart.
Chapter 6: Healthy Lungs
Big Idea When God created man, He designed the respiratory system. The organs of this complex system allows our bodies to use oxygen, which is necessary for all other body systems to function.
Lesson 1 What Is Your Respiratory System?
Essential Learning: Know the parts and function of the respiratory system.
Lesson 2 Why Do You Breathe?
Essential Learning: Explain how oxygen is used by the body.
Lesson 3 How Do You Keep Your Lungs Healthy?
Essential Learnings: Explain some lung diseases and some things you can do to keep your lungs healthy. 3.5D.2, 3.5D.3, 3.5E.2, 3.5G.1

Unit Three: EARTH AND SPACE SCIENCE
Chapter 7: Earth's Surface
Big Idea God created Earth, and everything it is made of, for our care and benefit. Oceans and rivers, rocks and minerals, soil and sand, are all examples of the beautiful details in His Creation.
Lesson 1 Where Are Water and Land Found on Earth?
Essential Learning: 3.4A.1
Lesson 2 What Are Minerals and Rocks?
Essential Learning: 3.4A.2
Lesson 3 What Is Soil?
Essential Learning: 3.4A.3
Chapter 8: Weather and Climate
Big Idea God designed our atmosphere to contain exactly what we need for survival on Earth. Weather and climate reflect the condition of Earth's atmosphere.
Lesson 1 What Is Earth's Atmosphere?
Essential Learnings: 3.4B.6, 3.4B.3, 3.4B.1
Lesson 2 What Causes Weather Patterns?
Essential Learnings: 3.4B.2, 3.4B.1, K-4.D.2.b, K-4.D.3.b
Lesson 3 What Factors Affect Climate?
Essential Learnings: 3.4B.4, 3.4B.5
Chapter 9: Earth, the Sun, and the Moon
Big Idea God created Earth as just one part of the Solar System. Many patterns and cycles occur in space, and new discoveries are happening all the time.
Lesson 1 What Is in the Solar System?
Essential Learnings: 3.4C.3, 3.4C.4, 3.4C.5, 3.4C.7, 3.4C.1
Lesson 2 How Does Earth Move in Space?
Essential Learning: 3.4C.2
Lesson 3 Why Does the Moon Seem to Change Shape?
Essential Learning: 3.4C.6

Unit Four: PHYSICAL SCIENCE
Chapter 10: Energy
Big Idea The Universe abounds with the energy God created. From the energy given off by huge galaxies and numerous stars, to the energy that lets you see these words and powers the tiniest cells, all this energy comes from God. Each form of energy has its own characteristics and uses.
Lesson 1 How Does Energy Affect Matter?
Essential Learnings: 2.2B.1
Lesson 2 How Does Thermal Energy Move?
Essential Learnings: 3.2C.1, 3.2C.4, K-4.B.3.b
Lesson 3 What Is Sound?
Essential Learnings: 3.2C.2, K-4.B.2.d
Lesson 4 What Is Light?
Essential Learnings: 3.2C.3, K-4.B.3.a
Chapter 11: Motion and Forces
Big Idea The world around us is in constant motion. Objects in motion follow God's natural laws. Forces can change an object's motion and direction. Understanding the forces that produce motion gives us a better appreciation for the wonderful, dynamic world God has made for us to enjoy.
Lesson 1 How Can You Describe Motion?
Essential Learnings: 3.2B.1, 3.2B.5
Lesson 2 How Do Forces Affect Motion?
Essential Learnings: 3.2B.1, 3.2B.2, 3.2B.4
Lesson 3 What Common Forces Do We Use?
Essential Learning: 3.2B.3

Unit One: LIFE SCIENCE
Chapter 1: Plants and Plant Cells
Big Idea God created a wide variety of plants for us to use and grow. Plants also clean our air, recycle waste products, influence weather, protect soil, and contribute in other ways to a healthy environment. Plants are gifts from God that make Earth a wonderful place to live. Plants are made of cells God designed.
Lesson 1 What Are Plant Cells Like?
Essential Learnings: 4.3C.1, 4.3C.2, 4.3A.2, 4.3D.3
Lesson 2 How Do Cells Work Together?
Essential Learning: 4.3A.3
Lesson 3 What Are Different Kinds of Plants?
Essential Learnings: 4.3A.1, 4.3C.3, K-4.C.1.b
Lesson 4 How Do Plants Grow and Reproduce?
Essential Learnings: 4.3A.3, 4.3D.1, 4.3D.2, 4.3D.3, K-4.C.2.a
Chapter 2: Adaptations
Big Idea God designed adaptations that enable plants and animals to thrive, grow, live, reproduce, and survive in many places.
Lesson 1 What Are Several Plant Adaptations?
Essential Learnings: 4.3F.1, 4.3A.3
Lesson 2 What Are Some Animal Adaptations?
Essential Learnings: 4.3E.1, 4.3F.1
Chapter 3: Ecology
Big Idea God's Creation is full of living things. God designed the plants and animals to interact with one another in their ecosystem. By caring for all God's Creation, these interactions can remain balanced.
Lesson 1 What Are Ecosystems?
Essential Learnings: 4.3F.2, K-4.C.3.b, K-4.F.4.a
Lesson 2 How Do Organisms Interact?
Essential Learnings: 4.3B.1, 4.3B.2, 4.3C.4, K-4.C.3.a, K-4.C.3.b
Lesson 3 Where Do Plants and Animals Live?
Essential Learnings: 4.3F.4, K-4.C.1.a
Lesson 4 Why Is It Important to Care for the Environment?
Essential Learnings: 4.3B.3, 4.3F.3, K-4.C.3.d, K-4.F.4.c

Unit Two: THE HUMAN BODY
Chapter 4: Your Complex Body
Big Idea God designed many complex systems that work together inside your body. Practicing a healthy lifestyle and keeping your body healthy honors God and helps keep the systems working properly.
Lesson 1 What Systems Make Up Your Body?
Essential Learning: Know the parts and functions of the body systems.
Lesson 2 What Factors Affect Your Body?
Essential Learning: 4.5A.1
Lesson 3 What Are Different Aspects of Health?
Essential Learnings: 4.5D.3, 4.5F.1
Chapter 5: Drugs Affect Your Body
Big Idea Drugs and medications can have both helpful and harmful effects. God expects us to use medications provided by parents and prescribed by doctors or other trained medical workers properly and to help others use drugs responsibly.
Lesson 1 What Are Drugs?
Essential Learnings: 4.5A.1, 4.5B.1
Lesson 2 How Do Drugs Affect Your Body?
Essential Learning: 4.5B.1
Lesson 3 How Can You Avoid Drug Abuse?
Essential Learnings: 4.5E.2, 4.5F.3, 4.5C.1
Chapter 6: Communicating Your Thoughts and Feelings
Big Idea The ability to think and feel is a gift from God. Communication is the sharing of thoughts and feelings with God and with other people.
Lesson 1 How Do Your Values and Character Affect You?
Essential Learnings: 4.5D.1, 4.5E.1, 4.5G.1, 4.5D.3
Lesson 2 How Does Your State of Mind Affect You?
Essential Learning: 4.5D.3
Lesson 3 Why Is Good Communication Important?
Essential Learnings: 4.5E.3, 4.5G.2

Grade 4

Unit Three: EARTH AND SPACE SCIENCE
Chapter 7: Changes to Earth
Big Idea The land God created has changed over time and continues to change today.
Lesson 1 What Is Earth's Structure?
Essential Learning:
Lesson 2 What Causes Earthquakes and Volcanoes?
Essential Learnings: 4.4B.5, 4.4B.4
Lesson 3 How Do Weathering and Erosion Reshape the Land?
Essential Learnings: 4.4B.5, K-4.D.3.a
Lesson 4 What Happened in Earth's Past?
Essential Learnings: 4.4B.1, 4.4B.4
Chapter 8: Earth's Rocks and Resources
Big Idea Earth's rocks formed from different processes and are constantly changing. Rocks are a source of raw materials and contain a record of the past in fossils. As the Creator, God has provided many natural resources for us to take care of and use.
Lesson 1 What Are Rocks?
Essential Learning: 4.4B.6
Lesson 2 What Are Fossils?
Essential Learnings: 4.4B.2, 4.4B.3, K-4.D.1.c
Lesson 3 Why Are Natural Resources Important?
Essential Learnings: 4.4A.1, 4.4A.2
Chapter 9: Exploring Space
Big Idea Planet Earth is a tiny speck in a huge universe that God has created. We can learn more about how the Universe works by studying space objects.
Lesson 1 How Do Scientists Explore Space?
Essential Learnings: 4.4C.2, 4.4C.3, K-4.G.1.a, K-4.G.1.b, K-4.E.2.e
Lesson 2 What Is in Our Solar System?
Essential Learning: 4.4C.4
Lesson 3 What Makes Up the Universe?
Essential Learnings: 4.4C.5, 4.4C.6, 4.4C.1

Unit Four: PHYSICAL SCIENCE
Chapter 10: Matter
Big Idea Everything around you is made of matter created by God. All the matter you can and cannot see is made of tiny particles. Matter has different forms and different properties, too.
Lesson 1 What Are Properties of Matter?
Essential Learnings: 4.2A.1, K-4.B.1.a
Lesson 2 What Are the States of Matter?
Essential Learnings: 4.2A.1, K-4.B.1.c
Lesson 3 What Is the Atomic Theory?
Essential Learnings: 3.2A.1, 4.2A.3, 4.2A.4
Lesson 4 What Are Mixtures and Solutions?
Essential Learnings: 4.2A.2, 4.2A.4, K-4.B.1.b
Lesson 5 What Are Physical and Chemical Changes?
Essential Learnings: 4.2A.2, K-4.B.1.a
Chapter 11: Magnetism and Electricity
Big Idea Magnetism and electricity are related. In this chapter you will discover how they are related and how they are used in things you use every day. God even created your body to use electrical currents.
Lesson 1 What Are Magnets?
Essential Learnings: 4.2C.1, K-4.B.3.d
Lesson 2 What Is Electricity?
Essential Learnings: 4.2C.2, 4.2C.3, K-4.B.3.c
Lesson 3 How Are Magnets and Electricity Related?
Essential Learnings: 4.2C.2, K-4.B.3.c

Essential Learnings are described in detail as an **Online Teacher Resource**.