

Grades 5–6 Detailed Table of Contents



Grade 5

Unit One: LIFE SCIENCE
Chapter 1: Living Things
Big Idea All living things were created by God. They are made of cells, reproduce, and share many other characteristics.
Lesson 1 What Are Living Things?
Essential Learnings: 5.3A.1, 5-8.C.1.b, 5-8.C.2.a, 5-8.C.3.a
Lesson 2 How Are Living Systems Organized?
Essential Learnings: 5.3C.1, 5-8.C.1.a, 5-8.C.1.d
Lesson 3 How Do Cells Divide and Reproduce?
Essential Learning: 5.3C.2
Chapter 2: Classification of Organisms
Big Idea God must really love variety to have created so many different animals with such fascinating characteristics! Scientists use different characteristics to classify animals into groups that make them easier to study.
Lesson 1 How Do We Classify Organisms?
Essential Learnings: 5.3A.2, 5-8.C.5.a
Lesson 2 What Are the Domains of Life?
Essential Learnings: 5.3A.2, 5-8.A.2.f, 5-8.A.2.g
Lesson 3 What Are Fish, Amphibians, and Reptiles?
Essential Learning: 5.3A.3
Lesson 4 What Are Birds and Mammals?
Essential Learning: 5.3A.3
Chapter 3: Adaptation
Big Idea God created living organisms with certain physical and behavioral characteristics that help them survive. He also created them with the potential for a limited amount of change so they could adapt to changing environments.
Lesson 1 What Is Adaptation?
Essential Learnings: 5.3F.1, 5.3F.2
Lesson 2 What Are Physical Adaptations?
Essential Learnings: 5.3F.1, 5.3F.2, 5-8.C.5b
Lesson 3 What Are Behavioral Adaptations?
Essential Learnings: 5.3E.1, 5.3E.2, 5.3F.1, 5-8.C.3.c
Lesson 4 What Are Some Plant Adaptations?
Essential Learning: 5.3F.2
Chapter 4: Organisms Interact
Big Idea God created organisms in an ecosystem to interact positively with each other and the environment. As a result of sin, some interactions have changed.
Lesson 1 What Is an Ecosystem?
Essential Learnings: 5.3B.2, 5-8.C.4.B
Lesson 2 How Does Energy Flow in an Ecosystem?
Essential Learnings: 5.3B.1, 5-8.C.4.C, 5.3B.1, 5-8.C.4.B
Lesson 3 How Do Organisms Interact?
Essential Learning: 5-8.C.4.D

Unit Two: THE HUMAN BODY
Chapter 5: Puberty and the Reproductive System
Big Idea God created both males and females in His image. Together they can represent Him more fully than either can alone. As boys and girls grow into men and women, they are able to share a little of God's creativity by being able to reproduce children that are created in His image, just as they were created.
Lesson 1 What Is God's Plan for Sexuality?
Lesson 2 How Do Boys and Girls Grow and Change?
Lesson 3 What Is God's Design for Reproduction?
Chapter 6: Conception, Pregnancy, and Birth
Big Idea God designed an amazing reproductive system that allows a man and woman to experience a little of His creative power.
Lesson 1 How Does a Baby Develop throughout Pregnancy?
Lesson 2 How Is a Baby Born?
Chapter 7: Common Diseases and Disorders
Big Idea An unfortunate part of life in a sinful world is disease. Many diseases are caused by pathogens and can be spread from person to person, causing serious health problems and sometimes death. Some diseases can be avoided by making choices in harmony with the health principles given to us by God.
Lesson 1 How Do We Fight Viruses and Microorganisms?
Lesson 2 What Are Diseases?
Lesson 3 Why Do We Care about Health?

Unit Three: EARTH AND SPACE SCIENCE
Chapter 8: Weather and Climate
Big Idea Just as God created Earth, God also created the atmosphere surrounding Earth. People study Earth's atmosphere to understand weather patterns and climate.
Lesson 1 What Is the Atmosphere?
Essential Learnings: 5.4B.4, 5.4B.11
Lesson 2 What Is the Water Cycle?
Essential Learnings: 5.4B.6, 5-8.D.1.g, 5-8.D.1.j
Lesson 3 What Is Weather?
Essential Learnings: 5.4B.1, 5.4B.2
Lesson 4 What Is Climate?
Essential Learnings: 5.4B.3, 5.4B.5
Chapter 9: Earth's Ocean
Big Idea God created a vast ocean that covers much of Earth's surface. The water in the ocean provides habitats and nutrients for many different organisms.
Lesson 1 What Is the Ocean Floor Like?
Lesson 2 How Does Ocean Water Move?
Essential Learning: 5.4B.8
Lesson 3 What Are Ocean Ecosystems?
Essential Learnings: 5.4B.7, 5.4B.10
Chapter 10: People and Earth
Big Idea God created a variety of ocean and land resources that provide important natural resources. By making positive choices, humans can work to preserve and restore Earth's ecosystems.
Lesson 1 Why Is the Ocean Important?
Essential Learning: 5.4B.9
Lesson 2 What Causes the Ocean to Change?
Essential Learning: 5.4B.10
Lesson 3 How Have People Changed Earth's Land and Water?
Essential Learning: 5.4B.10
Lesson 4 What Happens When Ecosystems Are Changed?
Essential Learning: 5.4B.10

Unit Four: PHYSICAL SCIENCE
Chapter 11: Forms of Energy
Big Idea God designed energy to exist in many forms. Energy can change from one form to another according to the laws He established.
Lesson 1 What Are Potential and Kinetic Energy?
Essential Learning: 5.2C.5
Lesson 2 How Do Thermal Energy and Matter Interact?
Essential Learnings: 5.2C.1, 5.2C.5
Lesson 3 What Are Sound Waves?
Essential Learnings: 5.2C.2, 5.2C.5
Chapter 12: The Electromagnetic Spectrum
Big Idea God created many different kinds of electromagnetic waves, some that you can see and some that are invisible. These waves reflect and bend according to laws established by God.
Lesson 1 What Are Electromagnetic Waves?
Essential Learnings: 5.2C.5, 5.2C.4
Lesson 2 What Is the Electromagnetic Spectrum?
Essential Learning: 5.2C.3
Lesson 3 How Do Lenses and Mirrors Affect Light?
Essential Learning: 5.2C.6
Chapter 13: Forces Affect Motion
Big Idea When God created His Universe, forces were created that govern the motions and behaviors of moving objects. These forces are subject to His laws. These laws help us explain how forces act on objects and how to predict what happens to objects when various forces are applied to them.
Lesson 1 What Are Forces?
Essential Learnings: 5.2B.4, 5.2B.5, 5.2B.6
Lesson 2 How Is Motion Described?
Essential Learnings: 5.2B.3, 5.2B.7, 5-8.B.2.a
Lesson 3 How Do Forces Affect Motion?
Essential Learnings: 5-8.B.2.b, 5-8.B.2.c
Chapter 14: Machines Are Helpful
Big Idea Work is accomplished when a force causes a movement in the direction of the force. Power describes how fast the work is being done. Machines make work easier for people.
Lesson 1 What Are Work and Power?
Essential Learning: 5.2B.2
Lesson 2 What Are Simple Machines?
Essential Learnings: 5.2B.1, 5.2B.2
Lesson 3 What Are Compound Machines?
Essential Learning: 5.2B.1

Grade 6

Unit One: LIFE SCIENCE
Chapter 1: An Overview of Life
Big Idea There is amazing diversity among the living things that God created. The more we study them, the more we see that they also have many things in common.
Lesson 1 What Themes Repeat in Biology?
Lesson 2 What Makes Nature Complex?
Lesson 3 What Cycles Exist in Nature?
Chapter 2: How Cells Are Alike and Different
Big Idea Cells are amazing structures and provide strong evidence of the Creator's design. They operate efficiently while carrying out the activities necessary for life.
Lesson 1 What Are Cells?
Essential Learnings: 6.3C.2, 7.3C.4
Lesson 2 How Are Cells Classified?
Essential Learnings: 6.3C.1, 7.3C.1, 7.3C.2, 7.3C.5
Lesson 3 What Do Organelles Do?
Essential Learnings: 7.3C.2, 7.3C.4
Lesson 4 How Do Cells Get Energy?
Essential Learning: 7.3C.3
Chapter 3: How Cells Function
Big Idea Cells contain DNA, special structures with instructions for carrying out life functions. God designed our cells this way so that our bodies can do amazing things.
Lesson 1 What Is the Structure of DNA?
Essential Learning: 6.3D.1
Lesson 2 How Are Proteins Made?
Essential Learning: 6.3E.1
Lesson 3 How Do Cells Help Your Body Function?
Essential Learning: 6.3E.1

Unit Two: THE HUMAN BODY
Chapter 4: How Your Body Is Organized
Big Idea God created your amazing body. It is incredibly complex. Your body is made up of a number of interconnected systems that work in harmony to perform specific functions to keep you healthy and alive.
Lesson 1 What Are Tissues?
Essential Learnings: 6.3C.4, 6.3C.3
Lesson 2 What Are Your Body Systems?
Essential Learning: 6.3C.4
Lesson 3 What Is the Integumentary System?
Essential Learning: 6.3C.3
Lesson 4 What Is the Nervous System?
Essential Learning: 6.3C.3
Lesson 5 What Are Sense Organs and Senses?
Essential Learning: 6.3C.3
Chapter 5: Systems Work Together in Your Body
Big Idea Living things are highly organized and have structures and systems with specific functions. God organized the structures and systems to work together to give life.
Lesson 1 What Do Bones Do?
Essential Learning: 6.3C.3
Lesson 2 What Do Muscles Do?
Essential Learning: 6.3C.3
Lesson 3 How Does Circulation Work?
Essential Learning: 6.3C.3
Lesson 4 How Does Respiration Work?
Essential Learning: 6.3C.3
Chapter 6: Safety and Care of the Body
Big Idea Because our bodies are the temple of the Holy Spirit, we should take the best possible care of them. When illnesses or injuries happen, we should seek to relieve suffering as Christ did during His ministry on Earth.
Lesson 1 What Do Health Professionals Do?
Essential Learning: 6.5B.1
Lesson 2 How Can We Stay Safe?
Essential Learning: 6.5B.2
Lesson 3 What Do You Do in an Emergency?
Essential Learning: 6.5B.2

Unit Three: EARTH AND SPACE SCIENCE
Chapter 7: Minerals and Rocks
Big Idea When God created Earth, He included a variety of minerals and rocks. People value rocks because they are useful and beautiful.
Lesson 1 What Are Minerals?
Essential Learning: 6.4A.2
Lesson 2 What Are Rocks and the Rock Cycle?
Essential Learnings: 6.4A.2, 5-8.D.1.d, 5-8.D.1.k
Lesson 3 What Minerals and Rocks Do We Use?
Essential Learning: 6.4A.2
Chapter 8: Our Dynamic Earth
Big Idea What was Earth like when God created it? We don't really know. Our Earth is always changing. A series of related processes causes these changes and works together to help create our environment and sustain life on Earth. Studying these processes helps us understand how Earth is changing and gives clues to how it may have changed in the past.
Lesson 1 What Is Earth's Structure?
Essential Learnings: 6.4A.1, 5-8.D.1.a
Lesson 2 How Does the Crust Move?
Essential Learnings: 6.4B.3, 5-8.D.1.b
Lesson 3 What Causes Earthquakes and Volcanoes?
Essential Learnings: 6.4B.3, 5-8.D.1.b
Chapter 9: Earth's Surface Features Change
Big Idea Water, glaciers, wind, and gravity are constantly causing the surface of our planet to change. They have left behind clues about the history of Earth.
Lesson 1 What Are Weathering, Erosion, and Deposition?
Essential Learnings: 6.4B.3
Lesson 2 How Is Soil Formed?
Essential Learning: 6.4B.4
Lesson 3 How Are Landforms Created?
Essential Learnings: 6.4A.1, 6.4B.1
Chapter 10: How Life on Earth Has Changed
Big Idea Earth and its life forms have changed over time. Fossils provide clues about many of these changes.
Lesson 1 What Are Fossils?
Essential Learnings: 6.4B.6, 5-8.D.2.b
Lesson 2 What Are Some Extinct Plants and Animals?
Essential Learnings: 6.4B.7, 5-8.D.2.b
Lesson 3 What Is Geologic Time?
Essential Learnings: 6.4B.2, 6.4B.5, 6.4B.8, 5-8.D.2.a

Unit Four: PHYSICAL SCIENCE
Chapter 11: Properties and Changes of Matter
Big Idea Objects are made of matter and have physical properties that can be observed and measured. Matter can be changed physically or chemically according to laws created by God.
Lesson 1 What Are Physical Properties?
Essential Learning: 6.2A.2
Lesson 2 What Are Physical Changes?
Essential Learning: 6.2A.2
Lesson 3 What Are Chemical Changes?
Essential Learning: 6.2A.2
Lesson 4 What Are Signs of a Chemical Reaction?
Essential Learning: 6.2A.2
Chapter 12: The Atomic Theory
Big Idea All matter in the Universe is composed of atoms, which is a sign of one Creator. God created this single building block with the ability to combine with other atoms to make different types of matter. Atoms were designed so small that they are not visible to the naked eye, making it difficult to study this creation.
Lesson 1 What Are the Building Blocks of Matter?
Essential Learnings: 6.2A.1, 6.2A.3
Lesson 2 What Is the Periodic Table of Elements?
Essential Learnings: 6.2A.4, 6.2A.5
Lesson 3 How Are Compounds and Molecules Related to Elements?
Essential Learnings: 6.2A.1, 6.2A.3
Lesson 4 How Do Compounds and Mixtures Differ?
Essential Learning: 6.2A.6
Chapter 13: Electricity
Big Idea Electricity is a form of energy produced by charged particles. In a continuous flow, or stored in a battery, electricity provides power for our technology.
Lesson 1 What Is Static Electricity?
Essential Learning: 6.2C.4
Lesson 2 What Is Electric Current?
Essential Learnings: 6.2C.4, 6.2C.5
Lesson 3 What Are Batteries?
Essential Learning: 6.2C.6
Lesson 4 What Are Electric Circuits?
Essential Learning: 6.2C.6
Lesson 5 What Are Electronics?
Essential Learning: 6.2C.6
Chapter 14: Electricity and Magnetism Are Related
Big Idea Magnets draw certain materials to themselves. They can be used to generate electricity, and electricity can be used to create magnets. Electricity and magnetism working together have been used to create generators and motors that power many things we use every day.
Lesson 1 What Are Magnets?
Essential Learning: 6.2C.1
Lesson 2 How Are Electricity and Magnetism Related?
Essential Learnings: 6.2C.2, 6.2C.3
Lesson 3 What Is a Generator and a Motor?
Lesson 4 How Is Electricity Used and Conserved?

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 *Life Style Challenge/ Guided Inquiry Exercise program	Body Health 1 *Life Style Challenge/ Guided Inquiry Diet	Body Systems 2 *Life Style Challenge/ Guided Inquiry Sleep	Body Health 2 *Life Style Challenge/ Guided Inquiry Media Use
	Body Organization: Skeletal System Muscular System Integumentary System Reproductive System (grades 5-8)	Immune System Disease Body and Lifestyle	Body Organization: Circulatory System Respiratory System Digestive System Excretory System	Nervous System Drugs Health Resources First Aid & Safety
3rd Qtr Physical Science	Energy	Magnetism and Electricity	Force and Motion	Chemistry
4th Qtr Earth and Space Science	Meteorology and Oceanography	Geology	Space	Earth's Resources