

Grades 7–8 Table of Contents

Grade 7

Unit ONE: LIFE SCIENCE
Chapter 1: Bacteria, Fungi, and Protists
Big Idea All living things are classified into groups according to the characteristics they share. Microscopic organisms such as bacteria, protists, and fungi are alike because most cannot be seen without magnification. Each can be either beneficial or harmful.
Lesson 1 How Are Living Things Classified?
Essential Learning: 5-8.C.5.a
Lesson 2 What Are Bacteria?
Essential Learnings: 7.3A.3, 7.3D.1, 5-8.C.1.b
Lesson 3 What Are Protists?
Essential Learning: 7.3A.3
Lesson 4 What Are Fungi?
Essential Learnings: 7.3A.3, 7.3D.1, 5-8.C.1.b
Chapter 2: Characteristics of Invertebrates
Big Idea God made the majority of animal species without backbones. These invertebrates are found in diverse environments and exhibit fascinating variety.
Lesson 1 How Are Invertebrates Classified?
Essential Learning: 7.3A.1
Lesson 2 What Are Sponges, Cnidarians, and Worms?
Essential Learnings: 7.3A.2, 5-8.C.1.a
Lesson 3 What Are Mollusks and Echinoderms?
Essential Learnings: 7.3A.2, 5-8.C.1.a
Lesson 4 What Are Arthropods?
Essential Learnings: 7.3A.2, 5-8.C.1.a
Lesson 5 How Do Invertebrates Use Their Senses?
Essential Learnings: 7.3A.2, 7.3E.3, 5-8.C.1.a
Chapter 3: Characteristics of Vertebrates
Big Idea Vertebrates are animals with backbones. God created a wide variety of vertebrates, which include fish, amphibians, reptiles, birds, and mammals.
Lesson 1 What Are Fish?
Essential Learnings: 7.3A.1, 5-8.C.1.a
Lesson 2 What Are Amphibians and Reptiles?
Essential Learnings: 7.3A.1, 7.3E.2, 5-8.C.1.a
Lesson 3 What Are Birds and Mammals?
Essential Learnings: 7.3A.1, 7.3E.2, 5-8.C.1.a
Lesson 4 How Do Vertebrates Behave and Communicate?
Essential Learnings: 7.3E.3, 5-8.C.3.c

Chapter 4: How Organisms Inherit Traits
Big Idea God designed organisms that inherit traits from their parents via genes, or segments of DNA. Patterns of inheritance can often be predicted if the genetic make-up of the parents is known.
Lesson 1 How Are DNA, Genes, and Cell Division Connected?
Essential Learnings: 7.3D.3, 7.3D.4, 7.3D.5, 5-8.C.2.c, 5-8.C.2.d, 5-8.C.2.e
Lesson 2 What Is Simple Inheritance?
Essential Learnings: 7.3d.3, 5-8.c.2.B
Lesson 3 What Is Complex Inheritance?
Essential Learnings: 7.3D.3, 5-8.C.2.d
Lesson 4 What Is Genetic Engineering?
Essential Learnings: 7.3D.2, 5-8.E.2.a, 5-8.E.2.e, 5-8E.2.f, 5-8.F.4.a

Unit TWO: THE HUMAN BODY
Chapter 5: Human Development and Sexuality
Big Idea Becoming an adult involves physical changes in your body and changes in the way you interact with others.
Lesson 1 How Do Organisms Reproduce?
Essential Learnings: 5-8.C.2.a, 5-8.C.2.b
Lesson 2 What Are Challenges of Sexual Maturity?
Essential Learning: 7.5A.1
Lesson 3 Why Is Sexual Abstinence Important?
Essential Learnings: 7.5A.1, 7.5C.2, 7.5D.1, 7.5F.1, 5-8.F.1.f, 5-8.F.4.d
Chapter 6: Infectious Diseases
Big Idea Knowing how disease is spread and how the immune system protects you from disease can help you stay healthy.
Lesson 1 How Does The Immune System Protect the Body?
Essential Learnings: 7.3E.4, 5-8.C.1.e
Lesson 2 What Are Infectious Diseases?
Essential Learnings: 7.5B.2, 5-8.C.1.f
Lesson 3 How Are STDs Prevented?
Essential Learnings: 5-8.F.4.b, 7.5B.2, 5-8.F.5.c
Lesson 4 How Does the World Combat Disease?
Essential Learnings: 7.5D.3, 5-8F.5.b
Chapter 7: Other Systems of the Human Body
Big Idea The human body is a marvel. God designed the body's systems to work together to in harmony to ensure good health.
Lesson 1 How Does the Digestive System Work?
Essential Learnings: 7.3E.4, 5-8.C.1.e
Lesson 2 How Does the Excretory System Work?
Essential Learnings: 7.3E.4, 5-8.C.1.e