

Biology offers a curriculum that focuses on the mastery of basic biological skills, concepts, and models that are important for students to know and apply in everyday life. The course begins with the study of cell and molecular biology and covers experimental design; chemistry and the biochemical basis of life; cell structure and function; basic metabolism; and genetics. Building on this foundation is an exploration into evolution, biodiversity, organismal biology, and ecology. As part of the study of vertebrates, the structure and function of major organ systems and biological processes in humans are introduced. Teacher-graded labs encourage students to apply the scientific method.

The content is based on the National Science Teachers Association (NSTA) standards and is aligned to state standards.

Length: Two semesters

UNIT 1: INTRODUCTION TO BIOLOGY

LESSON 1: THE NATURE OF SCIENCE

Study: The Meaning of Life

What does it mean to be alive? How do we know when something is dead? See if you can develop a useful definition of life.

Duration: 1 hr

Discuss: Who Wants to Be a Biologist?

Engage in a discussion with your classmates about what you find exciting about the pros and cons of a career as a scientist.

Duration: 0 hr 30 min Scoring: 25 points

Study: Learning about Labs

Prepare for laboratory work in biology by learning how to work safely and accurately in the lab.

Duration: 0 hr 15 min

Lab: Making a Rip-O-Meter

Design and conduct experiments to test leaf toughness using a device you build in the lab. Investigative Lab 2 in Biology: Exploring Life laboratory manual.

Duration: 1 hr Scoring: 50 points

Quiz: Characteristics of Living Things

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 2: THE TOOLS OF BIOLOGY

Study: The Processes of Science

See how biologists approach an important human health problem by applying a problem-solving strategy called the Scientific Method.

Duration: 1 hr

Study: Observation and Experimentation

Learn more about how biologists apply the Scientific Method.

Duration: 1 hr

Quiz: Scientific Process

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 3: INTRODUCTION TO BIOLOGY WRAP-UP

Review: Introduction to Biology

Take a multiple choice test covering the material learned in this unit.

Duration: 0 hr 30 min Scoring: 30 points

Test (CS): Introduction to Biology

Take a short answer and critical thinking test covering the material learned in this unit.

Duration: 0 hr 45 min Scoring: 30 points

Test (TS): Introduction to Biology

Test your understanding of the key concepts covered in Introduction to Biology.

Duration: 0 hr 45 min Scoring: 75 points

LESSON 4: DIAGNOSTIC

Diagnostic: Introduction to Biology

Test your understanding of the key concepts covered.

Duration: 0 hr 45 min Scoring: 24 points

UNIT 2: THE NATURE OF LIVING ORGANISMS

LESSON 1: THE BIG PICTURE

Study: Ecosystems to Molecules

Learn about the levels of biological organization.

Duration: 1 hr

Quiz: Ecosystems to Molecules

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 2: THE CHEMICAL BASIS OF LIFE

Study: The Nature of Matter

Learn about the basic structures that make up all matter in all living organisms.

Duration: 1 hr

Study: Water and Aqueous Solutions

Extend your knowledge of matter by learning about the structure and properties of a very important molecule: water.

Duration: 1 hr

Practice: Water and Aqueous Solutions

Apply your knowledge to answer questions about the material.

Duration: 1 hr Scoring: 50 points

Study: Biological Molecules

Learn the similarities and differences between major classes of biological molecules.

Duration: 1 hr

Quiz: Chemistry Basics

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 3: ENERGETICS OF LIVING SYSTEMS

Study: Energy of Biochemical Reactions

Explore the major forms of energy and see how energy is produced and consumed in biochemical reactions.

Duration: 0 hr 15 min

Lab: Way to Go, Indigo

Examine the process used by jeans manufacturers to soften and lighten denim fabric. Investigative Lab 5 in Biology: Exploring Life laboratory manual.

Duration: 1 hr Scoring: 50 points

Quiz: Biological Chemistry

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 4: THE NATURE OF LIVING ORGANISMS WRAP-UP

Review: The Nature of Living Organisms

Review concepts and skills learned to prepare for the test.

Duration: 2 hr

Test (CS): The Nature of Living Organisms

Take a multiple choice test covering the material learned in Introduction to Biology.

Duration: 0 hr 30 min Scoring: 30 points

Test (TS): The Nature of Living Organisms

Take a short answer and critical thinking test covering the material learned in Introduction to Biology.

Duration: 0 hr 45 min Scoring: 75 points

LESSON 5: DIAGNOSTIC

Diagnostic: The Nature of Living Organisms

Test your understanding of the key concepts covered in The Nature of Living Organisms.

Duration: 0 hr 45 min Scoring: 30 points

UNIT 3: CELL STRUCTURE AND FUNCTION

LESSON 1: INTRODUCTION TO CELLS

Study: The Cell Theory

Go back in time to see how biologists developed their theory of the cell.

Duration: 1 hr

Study: Basic Cell Structures

Dive into the basic structure and function of cells.

Duration: 1 hr

Lab: Design a Cell

Design and create model cells to explore the diffusion of a substance through different sizes and shapes of cells. Investigative Lab 6 in Biology: Exploring Life laboratory manual.

Duration: 1 hr Scoring: 50 points

Quiz: Basic Cell Structures

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 2: INVESTIGATING CELLS

Study: Microscopes and Cell Structure

Witness the development and types of microscopes and how they are used to understand cell structure.

Duration: 1 hr

Quiz: Microscopes and Cell Structure

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 3: CELLULAR SUPPORT, MOVEMENT, AND TRANSPORT

Study: Cell Support and Movement

Build on what you've learned about cells by exploring the internal composition of cells.

Duration: 1 hr

Journal: The Cell as a Factory?

Now that you know more about the structure and function of cells use your journal to record your thoughts about describing the cell as a factory.

Duration: 0 hr 30 min Scoring: 15 points

Study: Transport Mechanisms

Learn about the important ways that substances move in and out of cells.

Duration: 1 hr

Quiz: Explaining Cell Movement and Transport

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 4: CELL GROWTH AND DIVISION

Study: The Cell Cycle and Mitosis

Explore the factors that limit cell growth and division.

Duration: 1 hr

Quiz: Understanding the Cell Cycle

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 5: CELL STRUCTURE AND FUNCTION WRAP-UP

Review: Cell Structure and Function

Review concepts and skills learned to prepare for the test.

Duration: 2 hr

Test (CS): Cell Structure and Function

Take a multiple choice test covering the material learned in Introduction to Biology.

Duration: 0 hr 30 min Scoring: 30 points

Test (TS): Cell Structure and Function

Take a short answer and critical thinking test covering the material learned in Introduction to Biology.

Duration: 0 hr 45 min Scoring: 75 points

LESSON 6: DIAGNOSTIC

Diagnostic: Cell Structure and Function

Test your understanding of the key concepts covered in Cell Structure and Function.

Duration: 0 hr 45 min Scoring: 30 points

UNIT 4: CELLULAR METABOLISM

LESSON 1: CELLULAR RESPIRATION

Study: Glycolysis

Learn how glucose is broken down in a linear metabolic pathway.

Duration: 1 hr

Study: The Krebs Cycle

Study the details of the Krebs cycle a cyclic metabolic pathway. Learn how acetyl CoA enters the Krebs cycle resulting in the release of carbon dioxide and energy.

Duration: 1 hr

Practice: Glycolysis and the Krebs Cycle

Practice the steps in these two complex processes.

Duration: 1 hr Scoring: 50 points

Study: The Electron Transport Chain

Learn how the high-energy products of the Krebs cycle are used to make ATP.

Duration: 1 hr

Lab: A Twist on Fermentation

Answer questions and solve problems that demonstrate your understanding of the key components of cellular respiration.

Duration: 1 hr Scoring: 50 points

Quiz: Explaining Cellular Respiration

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 2: PHOTOSYNTHESIS

Study: Light Energy

Learn about light and how its energy is captured by three key plant pigments.

Duration: 1 hr

Study: Energy Conversion in Photosynthesis

Continue your Study of photosynthesis by looking more closely at the reactions that convert the sun's energy into other forms of energy.

Duration: 1 hr

Practice: Thinking about Photosynthesis, Part 1

Answer questions about the first stages of photosynthesis.

Duration: 1 hr Scoring: 50 points

Study: Energy Storage in Photosynthesis

Complete your Study of photosynthesis by exploring how plants convert carbon dioxide into simple sugars in the Calvin cycle.

Duration: 1 hr

Quiz: Thinking about Photosynthesis

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 3: CELLULAR METABOLISM WRAP-UP

Review: Cellular Metabolism

Review concepts and skills learned in this unit to prepare for the Unit Quiz.

Duration: 2 hr

Test (CS): Cellular Metabolism

Take a multiple choice test covering the material learned in Introduction to Biology.

Duration: 0 hr 30 min Scoring: 30 points

Test (TS): Cellular Metabolism Test

Take a short answer and critical thinking test covering the material learned in Introduction to Biology.

Duration: 0 hr 45 min Scoring: 75 points

LESSON 4: DIAGNOSTIC

Diagnostic: Cellular Metabolism

Test your understanding of the key concepts covered in Cellular Metabolism.

Duration: 0 hr 45 min Scoring: 30 points

UNIT 5: PRINCIPLES OF HEREDITY

LESSON 1: DNA AND RNA

Study: DNA: Discovery and Structure

Learn about the experiments that biologists performed to determine the structure and function of DNA.

Duration: 1 hr

Study: DNA Replication

Explore the mechanisms that organisms use to make exact copies of their genetic material.

Duration: 1 hr

Practice: Understanding DNA

Answer questions about DNA.

Duration: 1 hr Scoring: 50 points

Study: From DNA to Protein

Learn about two key processes that cells use to make the proteins that are encoded in their genetic material.

Duration: 1 hr

Lab: Radical Radishes

Design and conduct experiments to determine the effect of radiation on radish seed germination and seedling characteristics.

Investigative Lab 11A in Biology: Exploring Life laboratory manual.

Duration: 1 hr Scoring: 50 points

Quiz: DNA to Protein

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 2: GENETICS AND HEREDITY

Study: Meiosis

Learn how the division of chromosomes during chromosome reduction provides a molecular explanation for Mendel's observations.

Duration: 1 hr

Practice: Understanding Meiosis

Answer questions about the process of meiosis.

Duration: 1 hr Scoring: 50 points

Study: Mendel's Principles of Inheritance

Learn about the discovery of the basic principles of heredity.

Duration: 1 hr

Study: The Tools of Geneticists

Learn more about using Punnett squares and pedigree analysis.

Duration: 1 hr

Quiz: Thinking Like Mendel

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 3: BIOTECHNOLOGY

Study: Cloning Genes and Organisms

Overview of laboratory techniques used to clone genes and whole organisms

Duration: 1 hr

Study: Applications of Genetic Engineering

Learn about the methods and applications of genetic engineering.

Duration: 1 hr

Practice: Understanding Genetic Engineering

Apply your understanding on genetic engineering.

Duration: 1 hr Scoring: 50 points

Study: The Human Genome

Learn about the organization of genetic material in a human cell and explore the national effort to identify the function of all the DNA in our cells.

Duration: 1 hr

Quiz: Genetic Engineering

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 4: PRINCIPLES OF HEREDITY WRAP-UP

Review: Principles of Heredity

Review concepts and skills learned in this unit to prepare for the unit tests.

Duration: 2 hr

Test (CS): Principles of Heredity

Take a multiple choice test covering the material learned in this unit.

Duration: 0 hr 30 min Scoring: 30 points

Test (TS): Principles of Heredity

Take a short answer and critical thinking test covering the material learned in Introduction to Biology.

Duration: 0 hr 45 min Scoring: 75 points

LESSON 5: DIAGNOSTIC

Diagnostic: Principles of Heredity

Test your understanding of the key concepts covered in Principles of Heredity.

Duration: 0 hr 45 min Scoring: 30 points

UNIT 6: BIOLOGY SEMESTER 1 REVIEW AND EXAM

LESSON 1: BIOLOGY SEMESTER 1

Review: Biology Semester 1

Prepare for the Semester Exam by reviewing the content from the entire

Duration: 6 hr

Exam: Biology Semester 1

Demonstrate your understanding of concepts and skills covered in the first semester of Biology.

Duration: 0 hr 30 min Scoring: 80 points

Final Exam: Biology Semester 1

Demonstrate your understanding of concepts and skills covered in the first semester of Biology.

Duration: 1 hr 30 min Scoring: 120 points

UNIT 7: BIOLOGICAL CHANGE

LESSON 1: THE HISTORY OF LIFE

Study: Life on Early Earth

Learn about important theories of the formation of molecules, cells, and organisms on early Earth.

Duration: 1 hr

Study: The Fossil Record

Learn about the history of life on Earth by Studying the fossil record.

Duration: 1 hr

Quiz: Fossil Record

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 2: DARWIN'S THEORY OF EVOLUTION

Study: Diversity of Species

Explore the patterns of diversity and similarity that led to Darwin's theory about the origin of species.

Duration: 1 hr

Study: Evidence of Evolution

Evaluate the evidence that can be used to support Darwin's theory of evolution.

Duration: 1 hr

Discuss: Do You Believe Darwin?

Discuss the strengths and weaknesses of Darwin's evidence in support of his theory.

Duration: 0 hr 30 min Scoring: 25 points

Quiz: Darwin's Theory of Evolution

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 3: EVOLUTION OF POPULATIONS

Study: Genetic Evolution

Learn about the molecular forces that cause changes in populations.

Duration: 1 hr

Study: The Process of Speciation

Probe other factors that cause changes in populations over time.

Duration: 1 hr

Lab: Birds on an Island

Participate in a simulation of natural selection based on variations in beak phenotype. Investigative Lab 14 in Biology: Exploring Life laboratory manual.

Duration: 1 hr Scoring: 50 points

Quiz: Explaining Genetic Evolution

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 4: BIOLOGICAL CHANGE WRAP-UP

Review: Biological Change

Review concepts and skills learned to prepare for the unit test.

Duration: 2 hr

Test (CS): Biological Change

Take a multiple choice test covering the material learned in this unit.

Duration: 0 hr 30 min Scoring: 30 points

Test (TS): Biological Change

Take a short answer and critical thinking test covering the material learned in this unit.

Duration: 0 hr 45 min Scoring: 75 points

LESSON 5: DIAGNOSTIC

Diagnostic: Biological Change

Test your understanding of the key concepts covered in Biological Change.

Duration: 0 hr 45 min Scoring: 28 points

UNIT 8: BIOLOGICAL DIVERSITY

LESSON 1: CLASSIFICATION OF ORGANISMS

Study: Creating Order from Chaos

Practice using dichotomous keys

Duration: 1 hr

Study: Modern Taxonomy

Explore the ways that biologists classify organisms.

Duration: 1 hr

Quiz: Modern Taxonomy

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 2: THE MICROBIAL WORLD

Study: Bacteria

Learn about the two domains of prokaryotes: bacteria and archaeobacteria.

Duration: 1 hr

Practice: Understanding Bacteria

Answer questions on various characteristics of bacteria.

Duration: 1 hr Scoring: 50 points

Study: Protists

Probe the diversity of simple eukaryotes.

Duration: 1 hr

Study: Viruses

Behold the structure and function of viruses.

Duration: 1 hr

Lab: The Right Prescription for Bacteria

Conduct experiments to determine the effectiveness of antibiotics on different strains of bacteria. Investigative Lab 16A in Biology: Exploring Life laboratory manual.

Duration: 1 hr Scoring: 50 points

Quiz: Life as a Microbe

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 3: FUNGI AND PLANTS

Study: Kingdom Fungi

Survey of the structure and function of the fungi.

Duration: 1 hr

Study: The Diversity of Plants

Consider the features that all plants have in common and explore the different phyla and classes of the plant kingdom.

Duration: 1 hr

Practice: Understanding Plant Diversity

Construct cladograms to describe the evolutionary relationships between different species of plants.

Duration: 1 hr Scoring: 50 points

Study: Plant Cells, Tissues, and Organs

Learn about the major structures that make it possible for plants to survive grow and reproduce.

Duration: 1 hr

Quiz: Plant Cells Tissues and Organs

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 4: INVERTEBRATES

Study: Meet the Invertebrates

Learn about the major phyla and classes of invertebrates.

Duration: 1 hr

Study: Ecology and Evolution of the Invertebrates

Extend your understanding of invertebrate structure and function by learning how their major features evolved over time.

Duration: 1 hr

Quiz: Ecology and Evolution of the Invertebrates

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 5: BIOLOGICAL DIVERSITY WRAP-UP

Review: Biological Diversity

Review concepts and skills learned to prepare for the unit test.

Duration: 2 hr

Test (CS): Biological Diversity

Take a multiple choice test covering the material learned in this unit.

Duration: 0 hr 30 min Scoring: 30 points

Test (TS): Biological Diversity Test

Take a short answer and critical thinking test covering the material learned in this unit.

Duration: 0 hr 45 min Scoring: 75 points

LESSON 6: DIAGNOSTIC

Diagnostic: Biological Diversity

Test your understanding of the key concepts covered in Biological Diversity.

Duration: 0 hr 45 min Scoring: 30 points

UNIT 9: VERTEBRATE DIVERSITY

LESSON 1: MEET THE VERTEBRATES

Study: Vertebrate Body Plans

Explore the structural and functional organization of vertebrates.

Duration: 1 hr

Study: Vertebrate Evolution

Extend your understanding of biological change by Studying major pathways of vertebrate evolution.

Duration: 1 hr

Journal: Vertebrate Evolution and You

Use your journal to record your current understanding of vertebrate evolution and humans.

Duration: 0 hr 30 min Scoring: 15 points

Quiz: Meet the Vertebrates

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 2: SURVEY OF THE VERTEBRATES

Study: Fish and Amphibians

Learn more about vertebrates by Studying the form, function, and life cycles of fish and amphibians.

Duration: 1 hr

Study: Reptiles and Birds

Explore the evolutionary adaptations animals need for a life on land or in the air.

Duration: 1 hr

Practice: Fish Through Birds

Compare and contrast characteristics of many types of vertebrates

Duration: 1 hr Scoring: 50 points

Study: Mammals

Learn about the form function and life cycles of mammals.

Duration: 1 hr

Lab: Bones, Feathers, and Fur

Discover the structure-function relationships in bird and mammal bones and body coverings. Investigative Lab 26A in Biology: Exploring Life laboratory manual.

Duration: 1 hr Scoring: 50 points

Quiz: Understanding Fish and Amphibians

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 3: VERTEBRATE DIVERSITY WRAP-UP

Review: Vertebrate Diversity

Review concepts and skills learned to prepare for the unit test.

Duration: 2 hr

Test (CS): Vertebrate Diversity

Take a multiple choice test covering the material learned in Introduction to Biology.

Duration: 0 hr 30 min Scoring: 30 points

Test (TS): Vertebrate Diversity

Take a short answer and critical thinking test covering the material learned in this unit.

Duration: 0 hr 45 min Scoring: 75 points

LESSON 4: DIAGNOSTIC

Diagnostic: Vertebrate Diversity

Test your understanding of the key concepts covered in Vertebrate Diversity.

Duration: 0 hr 45 min Scoring: 30 points

UNIT 10: HUMAN BIOLOGY

LESSON 1: BODY SYSTEMS

Study: The Nervous System

Probe the major tissues and organs that coordinate and control functions throughout the body.

Duration: 1 hr

Study: Respiration and Circulation

Explore the respiratory and circulatory systems.

Duration: 1 hr

Practice: Nervous System, Respiration, and Circulation

Solidify your understanding of how these systems work.

Duration: 1 hr Scoring: 50 points

Study: Structure and Movement

Learn about the skeletal and muscular systems.

Duration: 1 hr

Study: Intake and Output

Learn how humans digest food for energy and how they excrete what their bodies can't use.

Duration: 1 hr

Quiz: Intake and Output

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 2: MAINTAINING THE BALANCE

Study: The Immune System

Learn about the strategies that vertebrates use to protect themselves from foreign invaders.

Duration: 1 hr

Practice: The Immune System

Answer questions about the immune system.

Duration: 1 hr Scoring: 50 points

Study: Chemical Signals

Explore the role of hormones in coordinating the biological functions of vertebrates.

Duration: 1 hr

Study: Integration of Organ Systems

Explore the interactions among several major organ systems.

Duration: 1 hr

Lab: Breaking Down Fat Digestion

Conduct experiments to determine the role of bile and pancreatic juice in fat digestions. Investigative Lab 29 in Biology: Exploring Life laboratory manual.

Duration: 1 hr Scoring: 50 points

Quiz: Integration of Organ Systems

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 3: VERTEBRATE REPRODUCTION AND DEVELOPMENT

Study: Male and Female

Read about the structure and function of the male and female reproductive systems including the role of reproductive hormones.

Duration: 1 hr

Study: Fertilization and Development

Explore the process of human reproduction and development.

Duration: 1 hr

Quiz: Fertilization and Development

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 4: HUMAN BIOLOGY WRAP-UP

Review: Human Biology

Review concepts and skills learned to prepare for the unit test.

Duration: 2 hr

Test (CS): Human Biology

Take a multiple choice test covering the material learned in this unit.

Duration: 0 hr 30 min Scoring: 30 points

Test (TS): Human Biology

Take a short answer and critical thinking test covering the material learned in Introduction to Biology.

Duration: 0 hr 45 min Scoring: 75 points

LESSON 5: DIAGNOSTIC

Diagnostic: Human Biology

Test your understanding of the key concepts covered in Human Biology.

Duration: 0 hr 45 min Scoring: 30 points

UNIT 11: THE LIVING ENVIRONMENT

LESSON 1: ECOLOGY AND ECOSYSTEMS

Study: Life in the Biosphere

Probe the major land biomes and aquatic ecosystems on Earth.

Duration: 1 hr

Practice: Comparing Biomes

Compare and contrast different biomes of the world.

Duration: 1 hr Scoring: 50 points

Study: The Flow of Energy in Ecosystems

A survey of food chains food webs and the flow of energy through a food chain. Includes a brief review of metabolic energy sources and uses.

Duration: 1 hr

Study: Cycles of Matter

Learn about the water cycle the carbon cycle and the nitrogen cycle.

Duration: 1 hr

Quiz: Cycles of Matter and Energy

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 2: THE HUMAN POPULATION

Study: Populations and Growth

Learn how populations grow and explore the factors that limit population growth.

Duration: 1 hr

Study: Renewable and Nonrenewable Resources

Explore the major natural resources that humans depend on for life and prosperity.

Duration: 1 hr

Practice: Reaching Earth's Limits?

Answer questions about the ability of the earth to supply the needs of all of its populations.

Duration: 1 hr Scoring: 50 points

Study: The Impact of Humans

Learn how many human activities influence the biosphere.

Duration: 1 hr

Lab: Can Lake Life Remain Despite Acid Rain?

Test the effect of simulated acid rain on lake water samples and predict the effects of acid rain on lake ecosystems. Investigative Lab 36 in Biology: Exploring Life laboratory manual.

Duration: 1 hr Scoring: 50 points

Quiz: The Impact of Humans

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring: 50 points

LESSON 3: THE LIVING ENVIRONMENT WRAP-UP

Review: The Living Environment

Review concepts and skills learned to prepare for the unit test.

Duration: 2 hr

Test (CS): The Living Environment

Take a multiple choice test covering the material learned in this unit.

Duration: 0 hr 30 min Scoring: 30 points

Test (TS): The Living Environment

Take a short answer and critical thinking test covering the material learned in this unit.

Duration: 0 hr 45 min Scoring: 75 points

LESSON 4: DIAGNOSTIC

Diagnostic: The Living Environment

Test your understanding of the key concepts covered in the Living Environment.

Duration: 0 hr 45 min Scoring: 30 points

UNIT 12: BIOLOGY SEMESTER 2 REVIEW AND EXAM

LESSON 1: BIOLOGY SEMESTER 2

Review: Biology Semester 2

Review concepts and skills learned to prepare for the semester test.

Duration: 6 hr

Exam: Biology Semester 2

Take a computer-scored exam covering material in this semester.

Duration: 0 hr 30 min Scoring: 80 points

Final Exam: Biology Semester 2

Take a teacher-scored exam covering material in this semester.

Duration: 1 hr 30 min Scoring: 120 points