

Science Foundations provides students with opportunities to develop the knowledge, skills, and strategies necessary for success in rigorous high school science courses. The course is appropriate for use as remediation at the high school level or as a bridge to high school.

Science Foundations is a two-semester course, with each semester containing 10 mini-units. Each mini-unit is composed of three lessons. The first lesson focuses on key concepts found in Earth science, physical science, and life science. The second lesson reinforces reading and math skills students need to be successful with the content introduced in the first lesson. The third lesson introduces scientific inquiry and critical thinking skills that will help students thrive in science as well as other disciplines. Carefully paced, guided instruction is accompanied by engaging and accessible interactive practice. Checkup activities provide an opportunity to review content prior to assessment. Practice activities offer an opportunity to apply concepts that were presented in Study activities.

The course is based on the National Science Education Standards (NSES) for middle school science.

Length: Two semesters

UNIT 1: WHAT IS SCIENCE?

LESSON 1: INTRODUCTION TO SCIENCE

Study: Introduction to Science

Learn what science is and how it affects your life.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: Introduction to Science

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Introduction to Science

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: SKILLS FOR SUCCESS

Study: Reading Skills for Science

Learn skills and strategies that will help you become an active reader in this and other courses.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: Skills for Success

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Skills for Success

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: THINKING LIKE A SCIENTIST

Study: Thinking Like a Scientist

Learn about the scientific method and how it is used to accumulate scientific knowledge.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Thinking Like a Scientist

Duration: 1 hr Scoring: 40 points

Quiz: Thinking Like a Scientist

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: WHAT IS SCIENCE? WRAP-UP

Review: Unit Review

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 2: PROPERTIES OF MATTER

LESSON 1: PHYSICAL AND CHEMICAL PROPERTIES OF MATTER

Study: Physical and Chemical Properties of Matter

Learn about matter and how to identify its physical and chemical properties.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Physical and Chemical Properties of Matter

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Physical and Chemical Properties of Matter

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: USING SI UNITS

Study: Using SI Units

Learn why scientists around the world use the same system of units.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Using SI Units

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Using SI Units

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: MAKING OBSERVATIONS

Study: Making Observations

Learn how to choose the correct tool to make accurate measurements of matter.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Making Observations

Duration: 1 hr Scoring: 40 points

Quiz: Making Observations

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: PROPERTIES OF MATTER WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 3: CHANGING MATTER

LESSON 1: PHYSICAL AND CHEMICAL CHANGES

Study: Physical and Chemical Changes

Learn how to identify physical and chemical changes in matter.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Physical and Chemical Changes

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Physical and Chemical Changes

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: CLASSIFYING EVENTS AND OBJECTS

Study: Classifying Events and Objects

Learn how to use properties and relationships to classify objects and events.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Classifying Events and Objects

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Classifying Events and Objects

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: ASKING QUESTIONS AND FORMING HYPOTHESES

Study: Asking Questions and Forming Hypotheses

Learn how to ask scientific questions and form hypotheses that can be tested through scientific inquiry.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Asking Questions and Forming Hypotheses

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Asking Questions and Forming Hypotheses

Take a quiz to assess your understanding of the material.

LESSON 4: CHANGING MATTER WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 4: WHAT MAKES UP MATTER?

LESSON 1: MIXTURES, COMPOUNDS, AND ELEMENTS

Study: Mixtures, Compounds, and Elements

Learn about mixtures, compounds, and elements and the types of particles that compose them.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Mixtures, Compounds, and Elements

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Mixtures, Compounds, and Elements

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: RECOGNIZING CHEMICAL SYMBOLS

Study: Recognizing Chemical Symbols

Learn how to identify the chemical symbols of elements and how to interpret chemical formulas and equations.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Recognizing Chemical Symbols

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Recognizing Chemical Symbols

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: USING MODELS

Study: Using Models

Learn several ways in which the different types of models are useful and how to build a model of an atom.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Using Models

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Using Models

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: WHAT MAKES UP MATTER? WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 5: ENERGY

LESSON 1: ENERGY TRANSFORMATIONS

Study: Energy Transformations

Learn about the different forms of energy and how they can change from one form to another.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: Energy Transformations

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Energy Transformations

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: LEARNING NEW VOCABULARY

Study: Learning New Vocabulary

Learn some techniques for determining the meaning of new words and building a scientific vocabulary.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: Learning New Vocabulary

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Learning New Vocabulary

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: DESIGNING AN EXPERIMENT

Study: Designing an Experiment

Learn about the different types of scientific investigations and how to design a controlled experiment.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Designing an Experiment

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Designing an Experiment

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: ENERGY WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 6: MOTION

LESSON 1: NEWTON'S LAWS

Study: Newton's Laws

Learn how scientists describe motion and how to apply Newton's laws of motion.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Newton's Laws

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Newton's Laws

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: INTERPRETING MATHEMATICAL TEXT

Study: Interpreting Mathematical Text

Learn how to interpret algebraic notation and how to express motion using algebraic equations.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Interpreting Mathematical Text

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Interpreting Mathematical Text

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: LABORATORY SAFETY

Study: Laboratory Safety

Learn how to recognize and avoid common laboratory hazards and interpret safety symbols.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Laboratory Safety

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Laboratory Safety

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: MOTION WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 7: FORCES AND MOTION

LESSON 1: INTRODUCTION TO FORCES

Study: Introduction to Forces

Learn about the effects of different kinds of forces on objects.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: Introduction to Forces

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Introduction to Forces

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: UNDERSTANDING QUANTITIES

Study: Understanding Quantities

Learn about scalar and vector quantities and how to use them to describe forces and motion.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: Understanding Quantities

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Understanding Quantities

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: ANALYZING DATA

Study: Analyzing Data

Learn techniques for analyzing a data set.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Analyzing Data

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Analyzing Data

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: FORCES AND MOTION WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 8: WORK AND MACHINES

LESSON 1: WORK, POWER, AND SIMPLE MACHINES

Study: Work, Power, and Simple Machines

Learn how scientists analyze work, power, and simple machines.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Work, Power, and Simple Machines

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Work, Power, and Simple Machines

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: SOLVING ALGEBRAIC EQUATIONS

Study: Solving Algebraic Equations

Learn how to follow the order of operations to solve algebraic equations related to work, power, and simple machines.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Solving Algebraic Equations

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Solving Algebraic Equations

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: MAKING GRAPHS

Study: Making Graphs

Learn how to make different kinds of graphs to represent data.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Making Graphs

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Making Graphs

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: WORK AND MACHINES WRAP-UP**Review: Unit Review**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC**Diagnostic: Diagnostic**

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 9: WAVES**LESSON 1: LIGHT, SOUND, AND ENERGY****Study: Light, Sound, and Energy**

Learn how to identify and describe waves and how they interact with each other.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: Light, Sound, and Energy

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Light, Sound, and Energy

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: UNDERSTANDING SCIENTIFIC NOTATION**Study: Understanding Scientific Notation**

Learn about scientific notation and how to use it to describe wavelength.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: Understanding Scientific Notation

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Understanding Scientific Notation

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: USING A SCIENTIFIC CALCULATOR**Study: Using a Scientific Calculator**

Learn how to use a scientific calculator to work with numbers written in scientific notation.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Using a Scientific Calculator

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Using a Scientific Calculator

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: WAVES WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 10: SCIENCE, TECHNOLOGY, AND SOCIETY

LESSON 1: SCIENCE AND ITS ROLE IN THE WORLD

Study: Science and Its Role in the World

Learn how science, technology, and society all influence and benefit one another.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Science and Its Role in the World

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Science and Its Role in the World

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: CONNECTING SCIENCE TO YOUR LIFE

Study: Connecting Science to Your Life

Learn about the advantages and disadvantages of products and how to evaluate a product claim.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Connecting Science to Your Life

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Connecting Science to Your Life

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: DRAWING CONCLUSIONS

Study: Drawing Conclusions

Learn how to draw conclusions from the results of an investigation.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Drawing Conclusions

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Drawing Conclusions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: SCIENCE, TECHNOLOGY, AND SOCIETY WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 11: THE UNIVERSE

LESSON 1: WHERE ARE WE?

Study: Where Are We?

Learn about the Earth, our solar system, the stars, and the universe.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Where Are We?

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Where Are We?

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: UNDERSTANDING SCALE

Study: Understanding Scale

Learn about scale, how to compare distances in space, and how to make a scale model of the solar system.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Understanding Scale

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Understanding Scale

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: CONVERTING BETWEEN UNITS

Study: Converting Between Units

Learn how to use conversion factors and tables to convert between different units of measurement.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Converting Between Units

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Converting Between Units

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: THE UNIVERSE WRAP-UP**Review: Unit Review**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC**Diagnostic: Diagnostic**

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 12: OUR PLANET**LESSON 1: THE EARTH, MOON, AND SUN SYSTEM****Study: The Earth, Moon, and Sun System**

Learn about what causes night and day, the seasons, the phases of the moon, and tides.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: The Earth, Moon, and Sun System

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: The Earth, Moon, and Sun System

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: USING GEOMETRY IN SCIENCE**Study: Using Geometry in Science**

Learn how to use geometry to describe the shape and movement of planets and their orbits.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Using Geometry in Science

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Using Geometry in Science

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: IDENTIFYING PATTERNS

Study: Identifying Patterns

Learn how to find patterns, identify trends, and make predictions from data sets.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Identifying Patterns

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Identifying Patterns

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: OUR PLANET WRAP-UP**Review: Unit Review**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC**Diagnostic: Diagnostic**

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 13: EARTH'S STRUCTURE**LESSON 1: EARTH'S INTERIOR AND SURFACE****Study: Earth's Interior and Surface**

Learn about Earth's structure, plate tectonics, and why volcanoes and earthquakes occur.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: Earth's Interior and Surface

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Earth's Interior and Surface

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: RECOGNIZING CHANGE OVER TIME**Study: Recognizing Change over Time**

Learn how rocks can show the way the Earth has changed over time.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: Recognizing Change over Time

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Recognizing Change over Time

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: IDENTIFYING QUESTIONS FOR FURTHER INVESTIGATION

Study: Identifying Questions for Further Investigation

Learn how the results of an investigation can often lead to more testable questions.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Identifying Questions for Further Investigation

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Identifying Questions for Further Investigation

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: EARTH'S STRUCTURE WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 14: EARTH'S CYCLES

LESSON 1: THE MOVEMENT OF MATERIALS BETWEEN EARTH'S SPHERES

Study: The Movement of Materials Between Earth's Spheres

Learn how the water cycle and rock cycle cause Earth's surface to change.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: The Movement of Materials Between Earth's Spheres

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: The Movement of Materials Between Earth's Spheres

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: USING WORD ROOTS TO UNDERSTAND SCIENTIFIC WORDS

Study: Using Word Roots to Understand Scientific Words

Learn what cognates are and how to use them to understand scientific words.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Using Word Roots to Understand Scientific Words

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Using Word Roots to Understand Scientific Words

Take a quiz to assess your understanding of the material.

LESSON 3: FOLLOWING THE ENGINEERING DESIGN PROCESS

Study: Following the Engineering Design Process

Learn how to use the steps of the engineering design process.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Following the Engineering Design Process

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Following the Engineering Design Process

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: EARTH'S CYCLES WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 15: THE ATMOSPHERE

LESSON 1: WEATHER AND CLIMATE

Study: Weather and Climate

Learn about Earth's atmosphere, weather, and climate.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: Weather and Climate

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Weather and Climate

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: READING MAPS

Study: Reading Maps

Learn about features on different types of maps and how to interpret a weather map.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: Reading Maps

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Reading Maps

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: IDENTIFYING BIAS

Study: Identifying Bias

Learn about bias in science and analyze bias on different sides of the global warming controversy.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Identifying Bias

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Identifying Bias

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: THE ATMOSPHERE WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 16: LIVING SYSTEMS

LESSON 1: THE ORGANIZATION AND REGULATION OF ORGANISMS

Study: The Organization and Regulation of Organisms

Learn about the characteristics shared by all living things.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: The Organization and Regulation of Organisms

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: The Organization and Regulation of Organisms

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: RELATING STRUCTURE TO FUNCTION

Study: Relating Structure to Function

Learn about the organization of living things and relate the structure and function of organs.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Relating Structure to Function

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Relating Structure to Function

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: DOING ETHICAL EXPERIMENTS

Study: Doing Ethical Experiments

Learn how ethics should be applied to scientific research and how organisms maintain homeostasis.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Doing Ethical Experiments

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Doing Ethical Experiments

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: LIVING SYSTEMS WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 17: HEREDITY AND GENETICS

LESSON 1: INTRODUCTION TO GENES AND GENE TECHNOLOGY

Study: Introduction to Genes and Gene Technology

Learn about the inheritance of genes, the structure and function of DNA, and advancements in gene technology.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Introduction to Genes and Gene Technology

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Introduction to Genes and Gene Technology

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: USING STATISTICS IN SCIENCE

Study: Using Statistics in Science

Learn how statistics and probability are used in science and determine the probability of inheriting traits.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Using Statistics in Science

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Using Statistics in Science

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: REPLICATING EXPERIMENTS

Study: Replicating Experiments

Learn the importance of replicating scientific experiments.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Replicating Experiments

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Replicating Experiments

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: HEREDITY AND GENETICS WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 18: EVOLUTION

LESSON 1: THE HISTORY OF LIFE ON EARTH

Study: The History of Life on Earth

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: The History of Life on Earth

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: The History of Life on Earth

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: IDENTIFYING SIGNAL WORDS

Study: Identifying Signal Words

Duration: 0 hrs 45 mins Scoring: 0 points

Checkup: Identifying Signal Words

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Identifying Signal Words

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: UNDERSTANDING LAWS, THEORIES, AND HYPOTHESES

Study: Understanding Laws, Theories, and Hypotheses

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Understanding Laws, Theories, and Hypotheses

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Understanding Laws, Theories, and Hypotheses

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: EVOLUTION WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 19: INTERDEPENDENCE OF LIFE

LESSON 1: ECOSYSTEMS

Study: Ecosystems

Learn how energy and matter flow through an ecosystem and what factors can limit a population's size.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Ecosystems

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Ecosystems

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: STUDYING SYSTEMS

Study: Studying Systems

Learn how scientists analyze systems and how to identify the parts of an ecosystem.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Studying Systems

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Studying Systems

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: COMMUNICATING ABOUT SCIENCE

Study: Communicating about Science

Learn about the importance of communication in the scientific process.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Communicating about Science

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Communicating about Science

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: INTERDEPENDENCE OF LIFE WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points

UNIT 20: HUMANS AND THE EARTH

LESSON 1: EARTH'S RESOURCES

Study: Earth's Resources

Learn about renewable and nonrenewable resources and how humans can limit their impact on them.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Earth's Resources

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Earth's Resources

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 2: USING THE INTERNET FOR RESEARCH

Study: Using the Internet for Research

Learn strategies for locating information on the Internet and how to judge the reliability of a website.

Duration: 0 hrs 45 mins Scoring: 0 points

Checkpoint: Using the Internet for Research

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Using the Internet for Research

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 3: USING SCIENCE TO MAKE CHOICES

Study: Using Science to Make Choices

Learn how to use science to make choices between different technologies.

Duration: 0 hrs 45 mins Scoring: 0 points

Practice: Using Science to Make Choices

Practice problem-solving skills related to concepts in the lesson.

Duration: 1 hr Scoring: 40 points

Quiz: Using Science to Make Choices

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

LESSON 4: HUMANS AND THE EARTH WRAP-UP

Review: Unit Review

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Computer-Scored Unit Test

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

Test (TS): Teacher-Scored Unit Test

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 50 points

LESSON 5: DIAGNOSTIC

Diagnostic: Diagnostic

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hrs 30 mins Scoring: 0 points