

Middle School Grade 8 Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts such as waves and electromagnetic radiation, energy and forces on Earth and in space, genetics and natural selection, and engineering design.

The two-semester course is arranged in themed units, each with two to three lessons. In each unit, activities make complex ideas accessible to students as they discover the nature of science through focused content, interactive mini-investigations, multi-modal representations, and personalized feedback. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through standards-aligned content and demonstrate their learning through computer- and teacher-scored assignments.

This course is built to state standards.

Length: Two semesters

## UNIT 1: SCIENCE AND ENGINEERING

### LESSON 1: WHAT IS SCIENCE?

#### Study: What Is Science?

Learn what science is and how scientific laws and theories are formed.

Duration: 1 hr Scoring: 0 points

#### Checkpoint: What Is Science?

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: What Is Science?

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: What Is Science?

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

#### Quiz: What Is Science?

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

### LESSON 2: TYPES OF INVESTIGATIONS

#### Study: Types of Investigations

Learn how to conduct different types of scientific investigations.

Duration: 1 hr Scoring: 0 points

#### Checkpoint: Types of Investigations

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Types of Investigations

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: Types of Investigations

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

### **Quiz: Types of Investigations**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## **LESSON 3: WHAT IS ENGINEERING?**

### **Study: What Is Engineering?**

Learn about engineering.

Duration: 1 hr Scoring: 0 points

### **Checkup: What Is Engineering?**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Review: What Is Engineering?**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### **Practice: What Is Engineering?**

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

### **Quiz: What Is Engineering?**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## **LESSON 4: WRAP-UP: SCIENCE AND ENGINEERING**

### **Review: Science and Engineering**

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

Duration: 0 hrs 30 mins Scoring: 0 points

### **Test (CS): Science and Engineering**

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

Duration: 0 hrs 30 mins Scoring: 30 points

## **UNIT 2: TOOLS OF INQUIRY**

### **LESSON 1: USING MODELS**

#### **Study: Using Models**

Learn about different kinds of models and how they are used by scientists.

Duration: 1 hr Scoring: 0 points

#### **Checkup: Using Models**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### **Review: Using Models**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### **Practice: Using Models**

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

#### **Quiz: Using Models**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## LESSON 2: TOOLS AND MEASUREMENT

### Study: Tools and Measurement

Learn about appropriate tools and SI units for collecting, recording, and analyzing data.

Duration: 1 hr Scoring: 0 points

### Checkup: Tools and Measurement

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### Review: Tools and Measurement

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### Practice: Tools and Measurement

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

### Quiz: Tools and Measurement

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## LESSON 3: DISPLAYING AND INTERPRETING DATA

### Study: Displaying and Interpreting Data

Learn different ways to organize, display, and analyze data.

Duration: 1 hr Scoring: 0 points

### Checkup: Displaying and Interpreting Data

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### Review: Displaying and Interpreting Data

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### Practice: Displaying and Interpreting Data

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

### Quiz: Displaying and Interpreting Data

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## LESSON 4: WRAP-UP: TOOLS OF INQUIRY

### Review: Tools of Inquiry

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

Duration: 0 hrs 30 mins Scoring: 0 points

### Test (CS): Tools of Inquiry

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

Duration: 0 hrs 30 mins Scoring: 30 points

## UNIT 3: ENERGY

### LESSON 1: DESCRIBING ENERGY

#### Study: Describing Energy

Learn what energy is and the different forms it takes.

Duration: 1 hr Scoring: 0 points

#### Checkup: Describing Energy

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Review: Describing Energy**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### **Practice: Describing Energy**

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

### **Quiz: Describing Energy**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## **LESSON 2: ENERGY TRANSFER AND TRANSFORMATION**

### **Study: Energy Transfer and Transformation**

Learn how energy can be transferred and how it can transform into different forms.

Duration: 1 hr Scoring: 0 points

### **Checkup: Energy Transfer and Transformation**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Review: Energy Transfer and Transformation**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### **Practice: Energy Transfer and Transformation**

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

### **Quiz: Energy Transfer and Transformation**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## **LESSON 3: WRAP-UP: ENERGY**

### **Review: Energy**

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

Duration: 0 hrs 30 mins Scoring: 0 points

### **Test (CS): Energy**

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

Duration: 0 hrs 30 mins Scoring: 30 points

## **UNIT 4: WAVES**

### **LESSON 1: MECHANICAL WAVES**

#### **Study: Mechanical Waves**

Learn the parts and properties of mechanical waves.

Duration: 1 hr Scoring: 0 points

#### **Checkup: Mechanical Waves**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### **Review: Mechanical Waves**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### Quiz: Mechanical Waves

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## LESSON 2: ELECTROMAGNETIC WAVES

### Study: Electromagnetic Waves

Learn the properties of electromagnetic waves and how these waves transmit light.

Duration: 1 hr Scoring: 0 points

### Checkup: Electromagnetic Waves

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### Review: Electromagnetic Waves

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### Practice: Electromagnetic Waves

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

### Quiz: Electromagnetic Waves

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## LESSON 3: WRAP-UP: WAVES

### Review: Waves

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

Duration: 0 hrs 30 mins Scoring: 0 points

### Test (CS): Waves

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

Duration: 0 hrs 30 mins Scoring: 30 points

## UNIT 5: APPLICATIONS OF WAVES

### LESSON 1: INTERACTIONS OF WAVES AND MATTER

#### Study: Interactions of Waves and Matter

Learn the different ways that waves can interact with matter.

Duration: 1 hr Scoring: 0 points

#### Checkup: Interactions of Waves and Matter

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Interactions of Waves and Matter

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: Interactions of Waves and Matter

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

#### Quiz: Interactions of Waves and Matter

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

### LESSON 2: WAVES AND TECHNOLOGY

#### Study: Waves and Technology

Learn how different technologies use waves.

Duration: 1 hr Scoring: 0 points

### **Checkpoint: Waves and Technology**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Review: Waves and Technology**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### **Practice: Waves and Technology**

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

### **Quiz: Waves and Technology**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## **LESSON 3: WRAP-UP: APPLICATIONS OF WAVES**

### **Review: Applications of Waves**

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

Duration: 0 hrs 30 mins Scoring: 0 points

### **Test (CS): Applications of Waves**

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

Duration: 0 hrs 30 mins Scoring: 30 points

## **UNIT 6: FORCE AND MOTION**

### **LESSON 1: DESCRIBING FORCES**

#### **Study: Describing Forces**

Learn what forces are and how they can be described.

Duration: 1 hr Scoring: 0 points

#### **Checkpoint: Describing Forces**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### **Review: Describing Forces**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### **Practice: Describing Forces**

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

#### **Quiz: Describing Forces**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

### **LESSON 2: DESCRIBING MOTION**

#### **Study: Describing Motion**

Learn how to describe the motion of an object and the differences between speed, velocity, and acceleration.

Duration: 1 hr Scoring: 0 points

#### **Checkpoint: Describing Motion**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Describing Motion**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Describing Motion**

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

**Lab: Describing Motion**

Design and conduct an experiment to determine how mass and unbalanced forces affect an object's motion.

Duration: 3 hrs Scoring: 50 points

**Quiz: Describing Motion**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

**LESSON 3: EFFECTS OF FORCES****Study: Effects of Forces**

Learn how forces affect the motion of objects.

Duration: 1 hr Scoring: 0 points

**Checkup: Effects of Forces**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Effects of Forces**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Effects of Forces**

Submit your work for a set of practice problems.

Duration: 0 hrs 20 mins Scoring: 10 points

**Lab: Effects of Forces**

Investigate how forces affect the motion of objects.

Duration: 3 hrs Scoring: 50 points

**Quiz: Effects of Forces**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

**LESSON 4: WRAP-UP: FORCE AND MOTION****Review: Force and Motion**

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

Duration: 0 hrs 30 mins Scoring: 0 points

**Test (CS): Force and Motion**

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

Duration: 0 hrs 30 mins Scoring: 30 points

**UNIT 7: SEMESTER WRAP-UP****LESSON 1: SEMESTER WRAP-UP****Review: Semester Wrap-Up**

Semester Wrap-Up

Duration: 0 hrs 30 mins Scoring: 0 points

**Exam: Semester Exam**

Take a computer-scored exam to demonstrate your mastery of concepts and skills covered in this semester.

## UNIT 8: NONCONTACT FORCES

### LESSON 1: ELECTROMAGNETIC FORCES

#### Study: Electromagnetic Forces

Learn what an electromagnetic force is and the factors that affect its strength.

Duration: 1 hr Scoring: 0 points

#### Checkup: Electromagnetic Forces

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Electromagnetic Forces

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: Electromagnetic Forces

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

#### Lab: Electromagnetic Forces

Investigate electric fields and magnetic fields.

Duration: 3 hrs Scoring: 50 points

#### Quiz: Electromagnetic Forces

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

### LESSON 2: GRAVITATIONAL FORCE

#### Study: Gravitational Force

Learn what gravitational force is and the factors that affect its strength.

Duration: 1 hr Scoring: 0 points

#### Checkup: Gravitational Force

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Gravitational Force

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: Gravitational Force

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

#### Quiz: Gravitational Force

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

### LESSON 3: WRAP-UP: NONCONTACT FORCES

#### Review: Noncontact Forces

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

Duration: 0 hrs 20 mins Scoring: 0 points

#### Test (CS): Noncontact Forces

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

Duration: 0 hrs 45 mins Scoring: 30 points

## UNIT 9: THE SOLAR SYSTEM



## LESSON 1: SUN-EARTH-MOON SYSTEM

### Study: Sun-Earth-Moon System

Learn how the interactions between the Sun, Earth, and Moon cause cycles such as day and night, seasons, and tides.

Duration: 1 hr Scoring: 0 points

### Checkup: Sun-Earth-Moon System

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### Review: Sun-Earth-Moon System

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### Practice: Sun-Earth-Moon System

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

### Lab: Sun-Earth-Moon System

Build a 3D model of the Sun-Earth-Moon system to explain the causes of day and night, seasons, the lunar cycle, and solar and lunar eclipses.

Duration: 3 hrs Scoring: 50 points

### Quiz: Sun-Earth-Moon System

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## LESSON 2: OUR SOLAR SYSTEM

### Study: Our Solar System

Learn about objects in our solar system, including planets, moons, comets, and asteroids.

Duration: 1 hr Scoring: 0 points

### Checkup: Our Solar System

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### Review: Our Solar System

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### Practice: Our Solar System

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

### Quiz: Our Solar System

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## LESSON 3: WRAP-UP: THE SOLAR SYSTEM

### Review: The Solar System

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

Duration: 0 hrs 20 mins Scoring: 0 points

### Test (CS): The Solar System

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

Duration: 0 hrs 45 mins Scoring: 30 points

## UNIT 10: EXPLORING THE UNIVERSE

### LESSON 1: THE UNIVERSE

**Study: The Universe**

Learn how our universe formed and about its general structure.

Duration: 1 hr Scoring: 0 points

**Checkpoint: The Universe**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: The Universe**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Explore: The Universe**

Choose one of the examples of artificial selection given in the standard. In Part 1, students will identify possible sources. In Part 2, students should be asked specific questions to help them gather the information they need to answer Part 3. In Part 3, students could make a presentation, write an essay, etc. that requires them to synthesize the information they gathered.

Duration: 2 hrs Scoring: 35 points

**Quiz: The Universe**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

**LESSON 2: OUR SUN AND OTHER STARS****Study: Our Sun and Other Stars**

Learn how stars form and evolve, as well as about the structure of our Sun.

Duration: 1 hr Scoring: 0 points

**Checkpoint: Our Sun and Other Stars**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Our Sun and Other Stars**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Our Sun and Other Stars**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

**Quiz: Our Sun and Other Stars**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

**LESSON 3: SPACE EXPLORATION****Study: Space Exploration**

Learn about the history and future of space exploration.

Duration: 1 hr Scoring: 0 points

**Checkpoint: Space Exploration**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Space Exploration**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Space Exploration**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

### **Quiz: Space Exploration**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## **LESSON 4: WRAP-UP: EXPLORING THE UNIVERSE**

### **Review: Exploring the Universe**

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

Duration: 0 hrs 20 mins Scoring: 0 points

### **Test (CS): Exploring the Universe**

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

Duration: 0 hrs 45 mins Scoring: 33 points

## **UNIT 11: LIVING THINGS**

### **LESSON 1: CLASSIFICATION OF LIVING THINGS**

#### **Study: Classification of Living Things**

Learn what a species is and how species are classified.

Duration: 1 hr Scoring: 0 points

#### **Checkup: Classification of Living Things**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### **Review: Classification of Living Things**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### **Practice: Classification of Living Things**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

#### **Quiz: Classification of Living Things**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

### **LESSON 2: CELL GROWTH AND REPRODUCTION**

#### **Study: Cell Growth and Reproduction**

Learn the different ways that organisms grow and cells divide.

Duration: 1 hr Scoring: 0 points

#### **Checkup: Cell Growth and Reproduction**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### **Review: Cell Growth and Reproduction**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### **Practice: Cell Growth and Reproduction**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

#### **Quiz: Cell Growth and Reproduction**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

### **LESSON 3: LIFE CYCLES**

**Study: Life Cycles**

Learn about different types of life cycles, including the life cycles of plants and animals.

Duration: 1 hr Scoring: 0 points

**Checkup: Life Cycles**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Life Cycles**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Life Cycles**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

**Quiz: Life Cycles**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

**LESSON 4: WRAP-UP: LIVING THINGS****Review: Living Things**

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

Duration: 0 hrs 20 mins Scoring: 0 points

**Test (CS): Living Things**

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

Duration: 0 hrs 45 mins Scoring: 30 points

**UNIT 12: GENETICS****LESSON 1: INHERITANCE****Study: Inheritance**

Learn how traits are passed down from one generation to the next.

Duration: 1 hr Scoring: 0 points

**Checkup: Inheritance**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Inheritance**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Inheritance**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

**Lab: Inheritance**

Use experimental evidence to explain how environmental and genetic factors affect the growth of plants.

Duration: 3 hrs Scoring: 50 points

**Quiz: Inheritance**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

**LESSON 2: GENES AND DNA****Study: Genes and DNA**

Learn about the structure of DNA and how DNA is used as instructions for proteins.

Duration: 1 hr Scoring: 0 points

### **Checkpoint: Genes and DNA**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Review: Genes and DNA**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### **Practice: Genes and DNA**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

### **Quiz: Genes and DNA**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## **LESSON 3: BIOTECHNOLOGY**

### **Study: Biotechnology**

Learn about technologies involving the manipulation of the genes of organisms.

Duration: 1 hr Scoring: 0 points

### **Checkpoint: Biotechnology**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Review: Biotechnology**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### **Practice: Biotechnology**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

### **Explore: Biotechnology**

Research genetically modified organisms.

Duration: 2 hrs Scoring: 35 points

### **Quiz: Biotechnology**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## **LESSON 4: WRAP-UP: GENETICS**

### **Review: Genetics**

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

Duration: 0 hrs 20 mins Scoring: 0 points

### **Test (CS): Genetics**

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

Duration: 0 hrs 45 mins Scoring: 30 points

## **UNIT 13: EVOLUTION**

### **LESSON 1: THEORY OF EVOLUTION**

#### **Study: Theory of Evolution**

Learn about the theory of evolution and the evidence that supports the theory.

Duration: 1 hr Scoring: 0 points

#### **Checkpoint: Theory of Evolution**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Review: Theory of Evolution**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### **Practice: Theory of Evolution**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

### **Quiz: Theory of Evolution**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## **LESSON 2: NATURAL SELECTION**

### **Study: Natural Selection**

Learn how natural selection can cause species to evolve.

Duration: 1 hr Scoring: 0 points

### **Checkup: Natural Selection**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Review: Natural Selection**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### **Practice: Natural Selection**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

### **Quiz: Natural Selection**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 15 points

## **LESSON 3: WRAP-UP: EVOLUTION**

### **Review: Evolution**

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

Duration: 0 hrs 20 mins Scoring: 0 points

### **Test (CS): Evolution**

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

Duration: 0 hrs 45 mins Scoring: 30 points

## **UNIT 14: SEMESTER WRAP-UP**

### **LESSON 1: SEMESTER WRAP-UP**

#### **Review: Semester Wrap-up**

Prepare for the semester exam by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

#### **Exam: Semester Wrap-up**

Take a computer-scored exam to demonstrate your mastery of concepts and skills covered in this semester.

Duration: 0 hrs 40 mins Scoring: 105 points