

**Cocalico School District**  
**Year-at-a-Glance - Curriculum Overview**

**Department: Cocalico Connections    Course: Science 6    Grade Level: 6**

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**Outline for the course:**

The Scientific Process and Earth in the Universe

Scientific Inquiry [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*How do scientists conduct scientific investigations?*

Summary

*Review and connect what you learned.*

Assignment

*Describe scientific inquiry.*

Quiz Answers

Hypotheses, Theories, and Laws [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*What is the relationship between hypotheses, theories, and laws?*

Summary

*Review and connect what you learned.*

Assignment

*Describe hypotheses, theories, and laws.*

Quiz Answers

Tools and Technology [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*How are tools and technology used in science?*

Summary

*Review and connect what you learned.*

Assignment

*Analyze the use of technology and models in science.*

Quiz Answers

Measurement [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*How are things measured using the metric system?*

Summary

*Review and connect what you learned.*

Assignment

*Practice using the metric system.*

Quiz Answers

Analyzing Data [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

Summary

*Review and connect what you learned.*

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### Assignment

*Analyze data and draw conclusions.*

### Quiz Answers

#### Evaluating Scientific Explanations [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How are scientific explanations evaluated?*

##### Summary

*Review and connect what you learned.*

### Assignment

*Read "Who Built the Pyramids?"*

### Quiz Answers

#### The Expanding Universe [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How do scientists theorize that the universe formed?*

##### Summary

*Review and connect what you learned.*

#### The Solar System [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson*

##### Instruction

*What contributions led to the acceptance of the heliocentric model of the solar system?*

##### Summary

*Review and connect what you learned.*

### Assignment

*Describe the contributions that led to the heliocentric model of the solar system.*

### Quiz Answers

#### Planets [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How are the inner and outer planets characterized?*

##### Summary

*Review and connect what you learned.*

### Assignment

*Compare inner and outer planets.*

### Quiz Answers

#### The Earth-Sun-Moon System [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How do the movements of Earth and the moon affect each other?*

##### Summary

*Review and connect what you learned.*

### Assignment

*Explain how the movements of Earth and the moon affect each other.*

### Quiz Answers

#### Gravity and Motion [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How does the force of gravity affect objects in the universe?*

##### Summary

*Review and connect what you learned.*

## **Cocalico School District**

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#### Assignment

*Explain how the force of gravity affects objects in the universe.*

#### Quiz Answers

#### Unit Test

##### Unit Test Review Answers

##### Unit Test Answers

#### Earth's Geosphere and Hydrosphere

##### Landforms [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How do scientists describe the topography of an area?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Apply your knowledge of topography and landforms.*

##### Project: Landforms Model

*Create a model that shows a landform region.*

##### Quiz Answers

#### Weathering and Soil [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How does weathering affect Earth's surface?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Apply your knowledge of weathering, soil formation, and soil classification.*

##### Quiz Answers

#### Water and Wind Erosion [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How have water and wind shaped Earth's surface?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Describe how surface water, groundwater, glaciers, waves, and wind shape the surface.*

##### Short Writing

*Analyze the effects of weathering, erosion, and deposition in ecoregions of Texas.*

##### Project: Impacts of Erosion and Deposition

*Design a solution to a major erosion or deposition issue on a school campus.*

##### Quiz Answers

#### Models of Earth [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How is Earth's surface mapped?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Apply your knowledge about models of Earth.*

##### Quiz Answers

#### Surface Water [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

**Cocalico School District**  
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*Where is Earth's freshwater stored?*

**Summary**

*Review and connect what you learned.*

**Assignment**

*Identify where Earth's fresh water is found and stored.*

**Quiz Answers**

**Groundwater** [Guided Notes](#)

**Warm-Up**

*Get ready for the lesson.*

**Instruction**

*What is groundwater, and how can it be accessed?*

**Summary**

*Review and connect what you learned.*

**Assignment**

*Explain groundwater movement, groundwater zones, and how groundwater is accessed.*

**Quiz Answers**

**Ocean Water** [Guided Notes](#)

**Warm-Up**

*Get ready for the lesson.*

**Instruction**

*How can Earth's oceans be characterized?*

**Summary**

*Review and connect what you learned.*

**Assignment**

*Describe the characteristics of Earth's oceans.*

**Quiz Answers**

**Ocean Circulation** [Guided Notes](#)

**Warm-Up**

*Get ready for the lesson.*

**Instruction**

*What causes motion in the ocean?*

**Summary**

*Review and connect what you learned.*

**Assignment**

*Apply your knowledge to explain the motion of the oceans.*

**Quiz Answers**

**Cycles of Matter** [Guided Notes](#)

**Warm-Up**

*Get ready for the lesson.*

**Instruction**

*How does matter cycle through an ecosystem?*

**Summary**

*Review and connect what you learned.*

**Assignment**

*Assess cycles of matter in an ecosystem.*

**Project: The Water Cycle**

*Create a model of the water cycle.*

**Quiz Answers**

**Unit Test**

**Unit Test Review Answers**

**Unit Test Answers**

**Earth's History and Plate Tectonics**

**Geologic Time** [Guided Notes](#)

**Warm-Up**

*Get ready for the lesson.*

**Instruction**

*How is the geologic time scale used to show Earth's history?*

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## Year-at-a-Glance - Curriculum Overview

### Summary

*Review and connect what you learned.*

### Assignment

*Describe the geologic time scale and use it to detail Earth's evolution.*

### Short Writing

*Explain how the geologic time scale is used to organize Earth's history.*

### Project: Geologic Timeline Model

*Create a timeline that highlights events of a major geologic period.*

### Quiz Answers

#### Earth's Interior [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How is Earth's interior characterized?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Identify how Earth's interior is characterized.*

##### Project: Earth's Layers

*Create a model to show the different layers of Earth.*

##### Quiz Answers

#### Continental Drift [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How are Earth's continents related?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Describe continental drift and explain the evidence that supports the theory.*

##### Quiz Answers

#### Plate Tectonics [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How does the theory of plate tectonics explain the movement of Earth's plates?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Describe how the theory of plate tectonics explains the movement of Earth's plates.*

##### Short Writing

*Explain how plate tectonics have changed Earth's surface over time.*

##### Quiz Answers

#### Lab: Plate Boundaries and Movement

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*What effect does plate movement have on geologic events and structures at Earth's surface?*

##### Virtual Lab

*What effect does plate movement have on geologic events and structures at Earth's surface?*

##### Assignment: Reflect on the Lab

*Answer questions based on the lab activity.*

##### Lab Report

*Write your lab report.*

##### Summary

*Review and connect what you learned.*

#### Rocks and the Rock Cycle [Guided Notes](#)

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### Warm-Up

*Get ready for the lesson.*

### Instruction

*How are rocks identified?*

### Summary

*Review and connect what you learned.*

### Assignment

*Describe the properties used to identify rocks.*

### Quiz Answers

## Topographic Maps [Guided Notes](#)

### Warm-Up

*Get ready for the lesson.*

### Instruction

*How are topographic maps interpreted and used?*

### Summary

*Review and connect what you learned.*

### Assignment

*Apply your knowledge of topographic maps.*

### Project: Topographic Maps

*Analyze and interpret topographic maps and satellite images.*

### Project: Modeling Landforms

*Create a map and a three-dimensional model of a landform.*

### Quiz Answers

## Test

### Test Review Answers

### Test Answers

## Earth's Atmosphere, Weather, and Climate

### Structure and Composition of the Atmosphere [Guided Notes](#)

### Warm-Up

*Get ready for the lesson.*

### Instruction

*How is the atmosphere characterized?*

### Summary

*Review and connect what you learned.*

### Assignment

*Identify how Earth's atmosphere is characterized.*

### Quiz Answers

## Energy in the Atmosphere [Guided Notes](#)

### Warm-Up

*Get ready for the lesson.*

### Instruction

*How does energy travel through the atmosphere?*

### Summary

*Review and connect what you learned.*

### Assignment

*Explain how energy travels through the atmosphere.*

### Quiz Answers

## Winds [Guided Notes](#)

### Warm-Up

*Get ready for the lesson.*

### Instruction

*How do local and global winds differ?*

### Summary

*Review and connect what you learned.*

### Assignment

*Distinguishing local and global winds.*

### Quiz Answers

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#### Atmospheric Moisture and Precipitation [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*What is the role of atmospheric moisture in the formation of clouds and precipitation?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Describe the role of atmospheric moisture in the formation of clouds and precipitation.*

##### Quiz Answers

#### Air Masses and Fronts [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How do the movements and interactions of air masses cause changes in weather?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Analyze air masses and fronts.*

##### Quiz Answers

#### Storms [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*What causes thunderstorms, tornadoes, and hurricanes?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Analyze severe storm formation and its effect on the environment.*

##### Quiz Answers

#### Lab: Weather Patterns

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How do atmospheric conditions influence weather patterns?*

##### Virtual Lab

*How do atmospheric conditions influence weather patterns?*

##### Assignment: Reflect on the Lab

*Answer questions based on the lab activity.*

##### Lab Report

*Write your lab report.*

##### Summary

*Review and connect what you learned.*

#### Factors That Affect Climate [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How do various factors affect climate?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Describe what causes the seasons and identify factors that affect weather and climate.*

##### Project: Modeling Earth's Tilt

*Create a model and write an essay analyzing Earth's seasons.*

##### Quiz Answers

#### Unit Test

##### Unit Test Review Answers

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Unit Test Answers

Weathering, Erosion, and Deposition

Surface Water [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*Where is Earth's freshwater stored?*

Summary

*Review and connect what you learned.*

Assignment

*Identify where Earth's fresh water is found and stored.*

Quiz Answers

Groundwater [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*What is groundwater, and how can it be accessed?*

Summary

*Review and connect what you learned.*

Assignment

*Explain groundwater movement, groundwater zones, and how groundwater is accessed.*

Quiz Answers

Ocean Water [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*How can Earth's oceans be characterized?*

Summary

*Review and connect what you learned.*

Assignment

*Describe the characteristics of Earth's oceans.*

Quiz Answers

Weathering and Soil [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*How does weathering affect Earth's surface?*

Summary

*Review and connect what you learned.*

Assignment

*Apply your knowledge of weathering, soil formation, and soil classification.*

Quiz Answers

Test

Test Review Answers

Test Answers

Matter and Its Properties

Introduction to Matter [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*What is matter?*

Summary

*Review and connect what you learned.*

Assignment

*Describe and measure matter.*

Quiz Answers

Elements [Guided Notes](#)



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#### Warm-Up

*Get ready for the lesson.*

#### Instruction

*What are elements and how do they differ?*

#### Summary

*Review and connect what you learned.*

#### Assignment

*Describe elements, isotopes, and ions.*

#### Quiz Answers

#### Mixtures [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*What is a mixture?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Practice identifying properties of pure substances and mixtures.*

##### Quiz Answers

#### States of Matter [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How do solids, liquids, and gases differ?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Describe and identify states of matter.*

##### Quiz Answers

#### Changes of State [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*How does matter change from one state to another?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Recognize changes of state.*

##### Quiz Answers

#### Physical Properties [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*What happens during a physical change?*

##### Summary

*Review and connect what you learned.*

##### Assignment

*Describe physical properties and physical changes.*

##### Quiz Answers

#### Density [Guided Notes](#)

##### Warm-Up

*Get ready for the lesson.*

##### Instruction

*What is density?*

##### Summary

*Review and connect what you learned.*

##### Assignment

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*Practice using density.*

Quiz Answers

Chemical Properties [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*What happens during a chemical change?*

Summary

*Review and connect what you learned.*

Assignment

*Identify properties of matter.*

Quiz Answers

Unit Test

Unit Test Review Answers

Unit Test Answers

Forces and Energy

Introduction to Energy [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*What is energy?*

Summary

*Review and connect what you learned.*

Assignment

*Apply the concept of energy.*

Quiz Answers

Energy Transformations [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*How does energy change from one form to another?*

Summary

*Review and connect what you learned.*

Assignment

*Identify potential and kinetic energy relationships.*

Quiz Answers

Electromagnetism [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*What is the relationship between electricity and magnetism?*

Summary

*Review and connect what you learned.*

Assignment

*Identify the relationship between electricity and magnetism.*

Quiz Answers

Introduction to Waves [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*What are waves?*

Summary

*Review and connect what you learned.*

Assignment

*Describe waves.*

Quiz Answers

Sound Waves [Guided Notes](#)

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Warm-Up

*Get ready for the lesson.*

Instruction

*How are sound waves different from other waves?*

Summary

*Review and connect what you learned.*

Assignment

*Describe sound waves.*

Quiz Answers

Properties of Light [Guided Notes](#)

Warm-Up

Instruction

Summary

Assignment

*Recognize the properties of light.*

The Electromagnetic Spectrum [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*What is the electromagnetic spectrum?*

Summary

*Review and connect what you learned.*

Assignment

*Describe electromagnetic waves.*

Quiz Answers

Introduction to Forces [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*How do forces affect the motion of an object?*

Summary

*Review and connect what you learned.*

Assignment

*Predict force interactions.*

Quiz Answers

Potential and Kinetic Energy [Guided Notes](#)

Warm-Up

*Get ready for the lesson.*

Instruction

*What is the relationship between potential energy and kinetic energy?*

Summary

*Review and connect what you learned.*

Assignment

*Apply potential and kinetic energy concepts.*

Quiz Answers

Unit Test

Unit Test Review Answers

Unit Test Answers

## Cocalico School District Year-at-a-Glance - Curriculum Overview

**% of Course Time:** Self-paced, to cover all topics in the outline from above

**Textbooks & Supplemental Materials:** Edgenuity lessons, supplemented by Cocalico Teachers of Record

**Assessments:** Edgenuity quizzes and tests, performance tasks

**Standards Addressed:** Contact the Online Learning Facilitator for a supplemental document from Edgenuity outlining any applicable PA Standards address in the course topics. Note that for some courses, there are no PA Standards which may exist.



### Eagle P.A.C.T. Course Connections:

Online Learning courses help to prepare students for the diverse ways in which they will learn outside of school. The self-paced, independent nature of virtual courses also helps to develop important skills such as self-advocacy, time management, organization, study skills, and self-discipline. Such skills are needed for a successful future.