



The Correlation of PLATO® Curricula to West Virginia Content Standards and Objectives

Science

November 4, 2008

Introduction

PLATO Learning Inc. combines PLATO computer-assisted instruction into a flexible integrated learning system to enhance instructional effectiveness in education programs. This document identifies PLATO instructional activities that correlate to the West Virginia Content Standards and Objectives, Science. URL: <http://wvde.state.wv.us/csos/>.

It is recommended that instructors review the correlation in order to fine-tune the activity to fit their educational environment. Modules may be added or removed; Web sites and offline activities may also be incorporated to enhance the learning path.

The following PLATO courseware was used in this alignment:

PLATO® Projects for the Real World, Level D -- Problem Solving
PLATO® Projects for the Real World, Level D -- Body
PLATO® Projects for the Real World, Level D -- The World of Insects
PLATO® Projects for the Real World, Level D -- Books & More
PLATO® Projects for the Real World, Level D -- Endangered Animals
PLATO® Projects for the Real World, Level D -- Smart Shopper
PLATO® Projects for the Real World, Level E -- Home Health Detective
PLATO® Projects for the Real World, Level E -- State Visitor's Center
PLATO® Projects for the Real World, Level E -- News Desk
PLATO® Projects for the Real World, Level E -- Desert Survival
PLATO® Projects for the Real World, Level F -- School Proposal
PLATO® Projects for the Real World, Level F -- Food Bank
PLATO® Projects for the Real World, Level F -- Designing a Museum
PLATO® Projects for the Real World, Level F -- Climbing Mt. McKinley
PLATO® Projects for the Real World, Level G -- Volunteering
PLATO® Projects for the Real World, Level G -- Yellowstone Connection
PLATO® Projects for the Real World, Level G -- Make TV Work for You
PLATO® Projects for the Real World, Level G -- Olympic Games
Discovery Channel Elementary Science and Mathematics Adventures

PLATO Learning, Inc. looks forward to supporting your initiatives in providing successful educational programs using PLATO® computer-based lessons.

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Grade 03

Standard I: Nature of Science

SC.O.3.1.01 recognize that scientific explanations may lead to new discoveries (e.g., new knowledge leads to new questions).

PLATO Modules are not available for this learning expectation.

SC.O.3.1.02 study the lives and discoveries of scientists of different cultures and backgrounds.

**Discovery Channel Elementary Science and Mathematics Adventures
Inventors and Inventions**

Theater--Leonardo and Galileo

Guided Reading--William Shockley

Independent Reading--Alexander Graham Bell

Independent Reading--Benjamin Franklin

Measurement and Scale

Independent Reading--Fahrenheit

SC.O.3.1.03 explore science careers in the community.

**Discovery Channel Elementary Science and Mathematics Adventures
Astronomy**

Independent Reading--Earth Part I

Bacteria, Viruses and Allergies

Independent Reading--Bacteriology

Dynamic Earth

Theater--Hurricane

Theater--Lightning

Theater--Tornado

Theater--Tsunami

Guided Reading--Meteorology

Guided Reading--Tools

Independent Reading--Careers in Weather

Independent Reading--Measuring the Weather

Independent Reading--Weather

Independent Reading--Weather Forecasting

Habitats of the World

Independent Reading--Zoology

People and Space

Theater--The Astronauts

Guided Reading--Microgravity

Guided Reading--Staying Safe in Space

Guided Reading--Working in Space

Independent Reading--Human Beings Enter Space 2

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Rocks and Minerals
Guided Reading--Fossils
Guided Reading--Geology
Independent Reading--Careers in Geology

Weather and Climate
Independent Reading--Careers in Weather

SC.O.3.1.04 demonstrate curiosity, initiative and creativity by planning and conducting simple investigations.

Discovery Channel Elementary Science and Mathematics Adventures

Math: Money and Time
Guided Reading--How Money Developed
Independent Reading--How Money Developed
Independent Reading--How Money is Manufactured
Independent Reading--Money
Independent Reading--The History of US Currency

Rocks and Minerals
Guided Reading--Collecting Rocks

SC.O.3.1.05 recognize that developing solutions to problems takes time, patience and persistence through individual and cooperative ventures.

PLATO® Projects for the Real World, Level D -- Problem Solving

Make a Decision
3. Different Ways to Make a Decision
4. Make a Decision and Act On It

Discovery Channel Elementary Science and Mathematics Adventures

Inventors and Inventions
Theater--Biodegradable Golf Tee
Theater--Flight
Theater--Velcro

Measurement and Scale
Independent Reading--Kelvin

SC.O.3.1.06 support statements with facts found through research from various sources, including technology.

PLATO® Projects for the Real World, Level D -- The World of Insects

Meet an Entomologist
5. Do Some Insect Research

Discovery Channel Elementary Science and Mathematics Adventures

Tutorial: Astronomy; Discovery Center
Tutorial: Bacteria, Viruses, and Allergies; Discovery Center
Tutorial: Butterflies and Bees; Discovery Center

Dynamic Earth
Theater--Hurricane

Tutorial: Dynamic Earth; Discovery Center

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- Tutorial: Habitats of the World; Discovery Center**
- Tutorial: Inventors and Inventions; Discovery Center**
- Tutorial: Math: Money and Time; Discovery Center**
- Tutorial: Measurement and Scale; Discovery Center**
- Tutorial: People and Space; Discovery Center**
- Rocks and Minerals**
 - Guided Reading--Collecting Rocks**
 - Independent Reading--Rocks as a Hobby**
- Tutorial: Rocks and Minerals; Discovery Center**
- Weather and Climate**
 - Independent Reading--Measuring the Weather**
- Tutorial: Weather and Climate; Discovery Center**

SC.O.3.1.07 use scientific instruments, technology, and everyday materials to investigate the natural world.

- PLATO® Projects for the Real World, Level D -- Smart Shopper**
 - Who Wants You To Buy**
 - 3. Tell What Ads Are Aimed at Kids**

- PLATO® Projects for the Real World, Level E -- Desert Survival**
 - Define the Problem**
 - 1. What's the Problem**

- Discovery Channel Elementary Science and Mathematics Adventures**
 - Astronomy**
 - Guided Reading--Scientific Inquiry**
 - Tutorial: Astronomy; Discovery Center**
 - Tutorial: Bacteria, Viruses, and Allergies; Discovery Center**
 - Tutorial: Butterflies and Bees; Discovery Center**
 - Tutorial: Dynamic Earth; Discovery Center**
 - Tutorial: Habitats of the World; Discovery Center**
 - Tutorial: Inventors and Inventions; Discovery Center**
 - Math: Money and Time**
 - Guided Reading--Measuring Time**
 - Tutorial: Math: Money and Time; Discovery Center**
 - Measurement and Scale**
 - Theater--Length**
 - Theater--Weight**
 - Guided Reading--Volume**
 - Tutorial: Measurement and Scale; Discovery Center**
 - Tutorial: People and Space; Discovery Center**



Tutorial: Rocks and Minerals; Discovery Center

Tutorial: Weather and Climate; Discovery Center

SC.O.3.1.08 use safe and proper techniques for handling, manipulating and caring for science materials (e.g., follow safety rules, maintain a clean work area, or treat living organisms humanely).

PLATO Modules are not available for this learning expectation.

SC.O.3.1.09 apply mathematical skills and use metric units in measurements.

Discovery Channel Elementary Science and Mathematics Adventures

Math: Money and Time

Theater--Money

Guided Reading--The History of US Currency

Guided Reading--What is Money

Measurement and Scale

Theater--Length

Theater--Weight

Guided Reading--Early Units of Length

Guided Reading--Early Units of Weight

Guided Reading--Metric System

Guided Reading--U.S. Standard System

Guided Reading--Volume

SC.O.3.1.10 interpret data presented in a table, graph, map or diagram and use it to answer questions and make predictions and inferences based on patterns of evidence.

PLATO® Projects for the Real World, Level E -- Home Health Detective

Is There a Pattern

1. Reading Pictographs

2. Making Pictographs

Amazing Allergies

2. Using Tables

PLATO® Projects for the Real World, Level E -- Desert Survival

Define the Problem

1. What's the Problem

Desert Ecosystem

3. Charting Problems

Discovery Channel Elementary Science and Mathematics Adventures

Astronomy

Guided Reading--Scientific Inquiry

SC.O.3.1.11 Identify and control variables.

PLATO Modules are not available for this learning expectation.

Standard 2: Content of Science

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SC.O.3.2.01 identify the structures of living things, including their systems and explain their functions.

PLATO® Projects for the Real World, Level E -- Desert Survival
Saguaro Life Cycle
2. Troubleshooting

Discovery Channel Elementary Science and Mathematics Adventures
Bacteria, Viruses and Allergies
Independent Reading--Disease -- Part 3
Independent Reading--Immune System -- Part 2

Butterflies and Bees
Independent Reading--Butterflies -- Part 1
Independent Reading--Insects -- Part 2

SC.O.3.2.02 observe, measure and record changes in living things (e.g., growth and development, or variations within species).

PLATO® Projects for the Real World, Level D -- The World of Insects
How Insects Live
1. Observe Insects

SC.O.3.2.03 compare physical characteristics and behaviors of living organisms and explain how they are adapted to a specific environment (e.g., beaks and feet in birds, seed dispersal, camouflage, or different types of flowers).

PLATO® Projects for the Real World, Level D -- The World of Insects
How Insects Live
3. Think How Insects Survive

Discovery Channel Elementary Science and Mathematics Adventures
Bacteria, Viruses and Allergies
Independent Reading--The Life of Bacteria

Butterflies and Bees
Theater-- Bees
Theater-- Butterflies
Guided Reading--Monarch Butterfly
Guided Reading--Moths
Guided Reading--Predators
Guided Reading--Types of Bees
Guided Reading--Types of Butterflies
Independent Reading--Bumblebees
Independent Reading--Butterflies -- Part 2
Independent Reading--Caterpillars
Independent Reading--Insects -- Part 1
Independent Reading--Insects -- Part 4
Independent Reading--Moths

Habitats of the World
Theater--Grasslands
Theater--Polar Ice

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Theater--Rain Forests
Guided Reading--Birds
Guided Reading--Insects
Guided Reading--Marsupials
Guided Reading--Migration
Guided Reading--Reptiles

SC.O.3.2.05 relate the buoyancy of an object to its density.

PLATO Modules are not available for this learning expectation.

SC.O.3.2.06 identify physical and chemical properties.

PLATO Modules are not available for this learning expectation.

SC.O.3.2.07 relate changes in states of matter to changes in temperature.

PLATO Modules are not available for this learning expectation.

SC.O.3.2.08 investigate the dissolving of solids in liquids.

PLATO Modules are not available for this learning expectation.

SC.O.3.2.09 investigate the reflection and refraction of light by objects.

PLATO Modules are not available for this learning expectation.

SC.O.3.2.10 relate how the color of an object is based upon the reflection of light.

PLATO Modules are not available for this learning expectation.

SC.O.3.2.11 recognize that it takes work to move objects over a distance.

PLATO Modules are not available for this learning expectation.

SC.O.3.2.12 examine the relationships between speed, distance, and time.

Discovery Channel Elementary Science and Mathematics Adventures
Math: Money and Time
Independent Reading--Measuring Time
Independent Reading--Time

SC.O.3.2.13 recognize that the greater a force is exerted on an object, the greater the change of its motion.

PLATO Modules are not available for this learning expectation.

SC.O.3.2.14 identify examples of potential and kinetic energy.

PLATO Modules are not available for this learning expectation.

SC.O.3.2.15 identify fossils as a record of time.

Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Independent Reading--Earth Part 3



Dynamic Earth
Independent Reading--Determining Past Climates

Rocks and Minerals
Theater--Grand Canyon

SC.O.3.2.16 explore erosion of different materials by water and wind (e.g., sand, soil, or rocks).

Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Independent Reading--Earth Part 2

Rocks and Minerals
Theater--Erosion
Theater--Grand Canyon
Guided Reading--Erosion

SC.O.3.2.17 describe how volcanoes and earthquakes affect the Earth.

Discovery Channel Elementary Science and Mathematics Adventures
Rocks and Minerals
Theater--Rocks

SC.O.3.2.18 recognize the relative movement of the Earth and moon in relation to the sun.

Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Theatre--Moon
Theatre--Solar System
Guided Reading--Orbits
Independent Reading--Earth Part I

Math: Money and Time
Theater--Time

SC.O.3.2.19 describe the similarities and differences among the planets.

Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Theatre--Solar System
Guided Reading--Gas Giants
Guided Reading--Mars and Earth
Guided Reading--Terrestrial Planets
Independent Reading--Jupiter
Independent Reading--Mars
Independent Reading--Mercury
Independent Reading--Neptune
Independent Reading--Pluto
Independent Reading--Saturn
Independent Reading--Uranus
Independent Reading--Venus



Dynamic Earth
Independent Reading--Weather

SC.O.3.2.20 identify properties of minerals and recognize that rocks are composed of different minerals.

Discovery Channel Elementary Science and Mathematics Adventures
Rocks and Minerals
Guided Reading--Collecting Rocks
Guided Reading--Minerals
Guided Reading--Rocks
Independent Reading--Gems
Independent Reading--Rock

SC.O.3.2.21 explain how igneous, sedimentary and metamorphic rocks are formed.

Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Independent Reading--Earth Part I

Rocks and Minerals
Theater--Grand Canyon
Theater--Rocks
Guided Reading--Rocks
Independent Reading--Rock
Independent Reading--Rocks as a Hobby

SC.O.3.2.22 identify geographical features using a model or map.

PLATO Modules are not available for this learning expectation.

SC.O.3.2.23 compare and contrast the layers of the Earth and their various features.

Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Independent Reading--Earth Part 1
Independent Reading--Earth Part 2

Rocks and Minerals
Guided Reading--Geology

Standard 3: Application of Science

SC.O.3.3.01 identify that systems are made of parts that interact with one another.

PLATO Modules are not available for this learning expectation.

SC.O.3.3.02 use models as representations of real things.

Discovery Channel Elementary Science and Mathematics Adventures
Measurement and Scale
Theater--Scale
Guided Reading--Why Scientists Use Models

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SC.O.3.3.03 observe that changes occur gradually, repetitively, or randomly within the environment and question causes of changes.

PLATO Modules are not available for this learning expectation.

SC.O.3.3.04 given a set of objects, group or order the objects according to an established scheme.

Discovery Channel Elementary Science and Mathematics Adventures

Tutorial: Astronomy; Discovery Center

Tutorial: Bacteria, Viruses, and Allergies; Discovery Center

Tutorial: Butterflies and Bees; Discovery Center

Tutorial: Dynamic Earth; Discovery Center

Tutorial: Habitats of the World; Discovery Center

Tutorial: Inventors and Inventions; Discovery Center

Tutorial: Math: Money and Time; Discovery Center

Tutorial: Measurement and Scale; Discovery Center

Tutorial: People and Space; Discovery Center

Tutorial: Rocks and Minerals; Discovery Center

Tutorial: Weather and Climate; Discovery Center

SC.O.3.3.05 given a set of events, objects, shapes, designs, or numbers, formulate patterns of constancy or regularity.

PLATO® Projects for the Real World, Level D -- Books & More

Make Some Books

3. Make a Pattern Page

SC.O.3.3.06 cite examples of the uses of science and technology in common daily events and in the community.

Discovery Channel Elementary Science and Mathematics Adventures

Inventors and Inventions

Independent Reading--Charles Townes

SC.O.3.3.07 explain a simple problem and identify a specific solution describing the use of tools and/or materials to solve the problem or to complete the task.

Discovery Channel Elementary Science and Mathematics Adventures

Inventors and Inventions

Theater--Biodegradable Golf Tee

Theater--Flight

Theater--Velcro

Measurement and Scale

Guided Reading--Scientific Inquiry

Independent Reading--Kelvin



SC.O.3.3.08 recognize that a solution to one scientific problem often creates new problems (e.g., recycling, pollution, conservation, or waste disposal).

PLATO Modules are not available for this learning expectation.

SC.O.3.3.09 listen to and be tolerant of different viewpoints by engaging in collaborative activities and be willing to modify ideas when new and valid information is presented.

PLATO Modules are not available for this learning expectation.

SC.O.3.3.10 develop respect and responsibility for the environment by engaging in conservation practices.

Discovery Channel Elementary Science and Mathematics Adventures
Habitats of the World
Independent Reading--Air Pollution

Weather and Climate
Theater--Global Warming

SC.O.3.3.11 describe how modern tools and appliances have positively and/or negatively impacted their daily lives.

Discovery Channel Elementary Science and Mathematics Adventures
Inventors and Inventions
Guided Reading--Thomas Alva Edison

Math: Money and Time
Guided Reading--Making Money

People and Space
Theater--Living in Space

Grade 04

Standard I: Nature of Science

SC.O.4.1.01 explain how new discoveries lead to changes in scientific knowledge.

PLATO Modules are not available for this learning expectation.

SC.O.4.1.02 study the lives and discoveries of scientists of different cultures and backgrounds.

PLATO Modules are not available for this learning expectation.

SC.O.4.1.03 explore science careers in West Virginia.

Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Independent Reading--Earth Part I

Bacteria, Viruses and Allergies
Independent Reading--Bacteriology

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Dynamic Earth

- Theater--Hurricane
- Theater--Lightning
- Theater--Tornado
- Theater--Tsunami
- Guided Reading--Meteorology
- Guided Reading--Tools
- Independent Reading--Careers in Weather
- Independent Reading--Measuring the Weather
- Independent Reading--Weather
- Independent Reading--Weather Forecasting

Habitats of the World

- Independent Reading--Zoology

People and Space

- Theater--The Astronauts
- Guided Reading--Microgravity
- Guided Reading--Staying Safe in Space
- Guided Reading--Working in Space
- Independent Reading--Human Beings Enter Space 2

Rocks and Minerals

- Guided Reading--Fossils
- Guided Reading--Geology
- Independent Reading--Careers in Geology

Weather and Climate

- Independent Reading--Careers in Weather

SC.O.4.1.04 demonstrate curiosity, initiative and creativity by developing questions that lead to investigations; designing simple experiments; and trusting observations of discoveries when trying new tasks and skills.

Discovery Channel Elementary Science and Mathematics Adventures

Math: Money and Time

- Guided Reading--How Money Developed
- Independent Reading--How Money Developed
- Independent Reading--How Money is Manufactured
- Independent Reading--Money
- Independent Reading--The History of US Currency

Rocks and Minerals

- Guided Reading--Collecting Rocks

SC.O.4.1.05 recognize that developing solutions to problems requires persistence, flexibility, open-mindedness, and alertness for the unexpected.

Discovery Channel Elementary Science and Mathematics Adventures

Inventors and Inventions

- Theater--Velcro

Measurement and Scale

- Independent Reading--Kelvin

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Rocks and Minerals
Independent Reading--Rocks as a Hobby

SC.O.4.I.06 support statements with facts found through research from various sources, including technology.

PLATO Modules are not available for this learning expectation.

SC.O.4.I.07 use scientific instruments, technology and everyday materials to investigate the natural world.

PLATO® Projects for the Real World, Level D -- Smart Shopper
Who Wants You To Buy
3. Tell What Ads Are Aimed at Kids

PLATO® Projects for the Real World, Level E -- Desert Survival
Define the Problem
1. What's the Problem

PLATO® Projects for the Real World, Level F -- Climbing Mt. McKinley
Clothing
2. The Right Question

Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Guided Reading--Scientific Inquiry

Tutorial: Astronomy; Discovery Center

Tutorial: Bacteria, Viruses, and Allergies; Discovery Center

Tutorial: Butterflies and Bees; Discovery Center

Tutorial: Dynamic Earth; Discovery Center

Tutorial: Habitats of the World; Discovery Center

Tutorial: Inventors and Inventions; Discovery Center

Math: Money and Time
Guided Reading--Measuring Time

Tutorial: Math: Money and Time; Discovery Center

Measurement and Scale
Theater--Length
Theater--Weight
Guided Reading--Volume

Tutorial: Measurement and Scale; Discovery Center

Tutorial: People and Space; Discovery Center

Tutorial: Rocks and Minerals; Discovery Center

Tutorial: Weather and Climate; Discovery Center

SC.O.4.I.08 demonstrate safe and proper techniques for handling, manipulating and caring for science materials.

PLATO Modules are not available for this learning expectation.

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SC.O.4.1.09 construct a hypothesis when provided a problem.

Discovery Channel Elementary Science and Mathematics Adventures
Measurement and Scale
Guided Reading--Scientific Inquiry

SC.O.4.1.10 establish variables and controls in an experiment; test variables through experimentation.

PLATO Modules are not available for this learning expectation.

SC.O.4.1.11 interpret data presented in a table, graph, or diagram and use it to answer questions and make decisions.

PLATO® Projects for the Real World, Level E -- Home Health Detective
Is There a Pattern
1. Reading Pictographs
2. Making Pictographs

Amazing Allergies
2. Using Tables

PLATO® Projects for the Real World, Level E -- State Visitor's Center
How Hot Is It?
1. Step-by-Step Line Graph

PLATO® Projects for the Real World, Level E -- Desert Survival
Define the Problem
1. What's the Problem

Desert Ecosystem
3. Charting Problems

PLATO® Projects for the Real World, Level F -- Food Bank
Food Flow
1. Naming and Grouping
2. Flowcharts

Disaster Plan
1. What Could Happen?

PLATO® Projects for the Real World, Level F -- Climbing Mt. McKinley
Clothing
3. Easy Answers

The Weathermaker
2. Wind Speed

Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Guided Reading--Scientific Inquiry

SC.O.4.1.12 draw and support conclusions, make predictions and inferences based on patterns of evidence (e.g., weather maps, variation of plants, or frequency and pitch of sound).



**Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Guided Reading--Scientific Inquiry**

SC.O.4.1.13 apply mathematical skills and use metric units in measurements and calculations.

**Discovery Channel Elementary Science and Mathematics Adventures
Measurement and Scale
Theater--Length
Theater--Weight
Guided Reading--Early Units of Length
Guided Reading--Early Units of Weight
Guided Reading--Metric System
Guided Reading--Volume**

Standard 2: Content of Science

SC.0.4.2.01 describe the different characteristics of plants and animals, which help them to survive in different niches and environments.

**Discovery Channel Elementary Science and Mathematics Adventures
Butterflies and Bees
Guided Reading--Monarch Butterfly
Guided Reading--Types of Bees
Independent Reading--Butterflies -- Part 2
Independent Reading--Insects -- Part 4
Independent Reading--Moths**

**Habitats of the World
Theater--Grasslands
Theater--Polar Ice
Guided Reading--Birds
Guided Reading--Migration
Guided Reading--Reptiles**

SC.0.4.2.02 associate the behaviors of living organisms to external and internal influences (e.g., hunger, climate, or seasons).

PLATO Modules are not available for this learning expectation.

SC.0.4.2.03 identify and classify variations in structures of living things including their systems and explain their functions (e.g., skeletons, teeth, plant needles, or leaves).

**PLATO® Projects for the Real World, Level E -- Desert Survival
Saguaro Life Cycle
2. Troubleshooting**

**Discovery Channel Elementary Science and Mathematics Adventures
Bacteria, Viruses and Allergies
Independent Reading--Disease -- Part 3
Independent Reading--Immune System -- Part 2**

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Butterflies and Bees
Independent Reading--Butterflies -- Part 1
Independent Reading--Insects -- Part 2

SC.0.4.2.04 compare and sequence changes in cycles in relation to plant and animal life.

PLATO® Projects for the Real World, Level D -- The World of Insects
Take a Close Look at Ant Life
2. Examine the Life Cycle of Ants

PLATO® Projects for the Real World, Level E -- Desert Survival
Saguaro Life Cycle
1. What is a Cycle?
2. Troubleshooting

Discovery Channel Elementary Science and Mathematics Adventures
Bacteria, Viruses and Allergies
Theater--Bacteria
Independent Reading--The Life of Bacteria

Butterflies and Bees
Theater-- Bees
Theater-- Butterflies
Guided Reading--Growing Up
Guided Reading--Monarch Butterfly
Guided Reading--Moths
Independent Reading--Bees -- Part 1
Independent Reading--Bumblebees
Independent Reading--Butterflies -- Part 1
Independent Reading--Butterflies -- Part 2
Independent Reading--Insects -- Part 4
Independent Reading--Moths

SC.0.4.2.05 give examples how plants and animals closely resemble their parents and that some characteristics are inherited from the parents and others result from interaction with the environment.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.06 identify human uses of plants and animals (e.g., food sources, or medicines).

PLATO® Projects for the Real World, Level E -- Desert Survival
Define the Problem
2. Gone Forever

PLATO® Projects for the Real World, Level F -- Designing a Museum
Weaving Tales
1. Shearing and Carding Wool
2. Spinning

Discovery Channel Elementary Science and Mathematics Adventures
Butterflies and Bees
Theater-- Bees

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Guided Reading--Beekeepers
Guided Reading--Moths
Independent Reading--Bees -- Part 2
Independent Reading--Bumblebees
Independent Reading--Moths

SC.0.4.2.07 describe the effects of altering environmental barriers on the migration of animals.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.08 construct and explain models of habitats, food chains, and food webs.

Discovery Channel Elementary Science and Mathematics Adventures
Butterflies and Bees
Theater-- Butterflies
Independent Reading--Insects -- Part I

Habitats of the World
Theater--Grasslands
Theater--Rain Forests
Guided Reading--Predators and Prey

SC.0.4.2.09 investigate how properties can be used to identify substances.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.10 design an experiment to investigate the dissolving of solids and analyze the results.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.11 examine simple chemical changes (e.g., tarnishing, rusting, or burning).

PLATO Modules are not available for this learning expectation.

SC.0.4.2.12 explain that materials including air take up space and are made of parts that are too small to be seen without magnification.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.13 differentiate changes in states of matter due to heat loss or gain.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.14 investigate variables that affect the rate of evaporation of a liquid.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.15 compare and classify liquids based on density.

PLATO Modules are not available for this learning expectation.



SC.0.4.2.16 identify different forms of energy and describe energy transformations that occur between them (e.g., electrical to heat, or radiant to chemical).

PLATO Modules are not available for this learning expectation.

SC.0.4.2.17 examine types and properties of waves (e.g., transverse, longitudinal, frequency, or wavelengths).

PLATO Modules are not available for this learning expectation.

SC.0.4.2.18 investigate static electricity and conductors/nonconductors of electricity.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.19 construct simple electrical circuits.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.20 describe and explain the relationship between a compass and a magnetic field.

Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Independent Reading--Earth Part 2

SC.0.4.2.21 relate motion of an object to its frame of reference.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.22 predict and investigate the motion of an object if the applied force is changed.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.23 explore that sounds are produced by vibrating objects and columns of air and form conclusions about the relationship between frequency and pitch of sound.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.24 investigate the change in the length, tension, or thickness of the vibrating object on the frequency of vibration (e.g., string, wire, or rubber band).

PLATO Modules are not available for this learning expectation.

SC.0.4.2.25 examine the geologic time scale.

Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Independent Reading--Earth Part 2

Rocks and Minerals
Theater--Grand Canyon
Theater--Rocks



Guided Reading--Geology
Independent Reading--Geology

SC.0.4.2.26 locate and identify patterns of stars and their change in location throughout the year.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.27 compare and explain the relative time differences to erode materials.

Discovery Channel Elementary Science and Mathematics Adventures

Astronomy

Independent Reading--Earth Part 2

Rocks and Minerals

Theater--Erosion

Theater--Grand Canyon

Guided Reading--Erosion

SC.0.4.2.28 investigate the cause and effects of volcanoes, earthquakes and landslides.

Discovery Channel Elementary Science and Mathematics Adventures

Astronomy

Independent Reading--Earth Part 2

Rocks and Minerals

Theater--Erosion

Theater--Rocks

SC.0.4.2.29 interpret a weather chart or map and predict outcomes.

PLATO® Projects for the Real World, Level E -- State Visitor's Center

How Hot Is It?

1. Step-by-Step Line Graph

PLATO® Projects for the Real World, Level F -- Climbing Mt. McKinley

The Weathermaker

2. Wind Speed

Discovery Channel Elementary Science and Mathematics Adventures

Dynamic Earth

Theater--Hurricane

Theater--Tornado

Guided Reading--Meteorology

Independent Reading--Measuring the Weather

Independent Reading--Weather Forecasting

Weather and Climate

Independent Reading--Measuring the Weather

Independent Reading--Weather Forecasting

SC.0.4.2.30 identify the sun as a star.

Discovery Channel Elementary Science and Mathematics Adventures

Astronomy

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Theatre--Solar System
Theatre--Stars
Guided Reading--Sun

SC.0.4.2.31 explain the effects of correlation report of earth, moon and sun on the earth.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.32 describe and explain the planets orbital paths.

Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Guided Reading--Orbits
Guided Reading--Solar System
Independent Reading--Saturn
Independent Reading--Uranus

SC.0.4.2.33 differentiate between types of rock and describe the rock cycle.

Discovery Channel Elementary Science and Mathematics Adventures
Rocks and Minerals
Theater--Rocks

SC.0.4.2.34 compare ocean water and fresh water.

PLATO Modules are not available for this learning expectation.

SC.0.4.2.35 investigate soil types and soil composition.

PLATO® Projects for the Real World, Level F -- Food Bank
Compost Crew
I. What is Compost?

Standard 3: Application of Science

SC.0.4.3.01 identify that systems are made of parts that interact with one another.

PLATO Modules are not available for this learning expectation.

SC.0.4.3.02 create models as representations of real things.

Discovery Channel Elementary Science and Mathematics Adventures
Measurement and Scale
Theater--Scale
Guided Reading--Why Scientists Use Models

SC.0.4.3.03 observe that changes occur gradually, repetitively, or randomly within the environment and question causes of change.

PLATO Modules are not available for this learning expectation.

SC.0.4.3.04 given a set of objects, group or order the objects according to an established scheme.



**Discovery Channel Elementary Science and Mathematics Adventures
Tutorial: Astronomy; Discovery Center**

Tutorial: Bacteria, Viruses, and Allergies; Discovery Center

Tutorial: Butterflies and Bees; Discovery Center

Tutorial: Dynamic Earth; Discovery Center

Tutorial: Habitats of the World; Discovery Center

Tutorial: Inventors and Inventions; Discovery Center

Tutorial: Math: Money and Time; Discovery Center

Tutorial: Measurement and Scale; Discovery Center

Tutorial: People and Space; Discovery Center

Tutorial: Rocks and Minerals; Discovery Center

Tutorial: Weather and Climate; Discovery Center

SC.0.4.3.05 given a set of events, objects, shapes, designs, or numbers, find patterns of constancy or regularity.

**PLATO® Projects for the Real World, Level D -- Books & More
Make Some Books
3. Make a Pattern Page**

SC.0.4.3.06 identify and explain a simple problem or task to be completed; identify a specific solution; and list task requirements.

**Discovery Channel Elementary Science and Mathematics Adventures
Measurement and Scale
Guided Reading--Scientific Inquiry**

SC.0.4.3.07 use an appropriate engineering design to solve a problem or complete a task.

**PLATO® Projects for the Real World, Level F -- Designing a Museum
Shocking Invention
2. An Invention for the Birds**

**Discovery Channel Elementary Science and Mathematics Adventures
Inventors and Inventions
Theater--Biodegradable Golf Tee
Theater--Flight
Theater--Velcro**

**Measurement and Scale
Guided Reading--Scientific Inquiry
Independent Reading--Kelvin**

SC.0.4.3.08 recognize that a solution to one scientific problem often creates new problems (e.g., recycling, pollution, conservation, waste disposal, or need for technology).

PLATO Modules are not available for this learning expectation.



SC.0.4.3.09 listen to and be tolerant of different viewpoints by engaging in collaborative activities and modifying ideas when new and valid information is presented from a variety of resources.

**PLATO® Projects for the Real World, Level D -- Problem Solving
Make a Decision
4. Make a Decision and Act On It**

**PLATO® Projects for the Real World, Level D -- Body
Brain and Nerves
6. Brainstorm**

SC.0.4.3.10 describe the positive and negative consequences of the application of technology on personal health and the environment.

PLATO Modules are not available for this learning expectation.

SC.0.4.3.11 develop respect and responsibility for the environment by engaging in conservation practices.

**PLATO® Projects for the Real World, Level F -- Climbing Mt. McKinley
Mountain Dining
1. Water, Water Everywhere**

**Discovery Channel Elementary Science and Mathematics Adventures
Habitats of the World
Independent Reading--Air Pollution**

**Weather and Climate
Theater--Global Warming**

Grade 05

Standard 1: Nature of Science

SC.O.5.1.01 realize that scientists formulate and test their explanations of nature using observation and experiments.

**Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Guided Reading--Scientific Inquiry**

**Habitats of the World
Independent Reading--Zoology**

SC.O.5.1.02 recognize scientific knowledge is subject to modification as new scientific information challenges current explanations.

PLATO Modules are not available for this learning expectation.

SC.O.5.1.03 examine the careers and contributions of men and women of diverse cultures to the development of science.

PLATO Modules are not available for this learning expectation.



SC.O.5.1.04 compare and contrast the historical significance of scientific discoveries.

**Discovery Channel Elementary Science and Mathematics Adventures
Inventors and Inventions**

**Theater--Leonardo and Galileo
Guided Reading--William Shockley
Independent Reading--Alexander Graham Bell
Independent Reading--Benjamin Franklin**

**Measurement and Scale
Independent Reading--Fahrenheit**

SC.O.5.1.05 cooperate and collaborate to ask questions, design and conduct investigations to find answers and solve problems.

**Discovery Channel Elementary Science and Mathematics Adventures
Astronomy**

Guided Reading--Scientific Inquiry

Tutorial: Astronomy; Discovery Center

Tutorial: Bacteria, Viruses, and Allergies; Discovery Center

Tutorial: Butterflies and Bees; Discovery Center

Tutorial: Dynamic Earth; Discovery Center

Tutorial: Habitats of the World; Discovery Center

Tutorial: Inventors and Inventions; Discovery Center

Math: Money and Time

**Guided Reading--How Money Developed
Independent Reading--How Money Developed
Independent Reading--How Money is Manufactured
Independent Reading--Money
Independent Reading--The History of US Currency**

Tutorial: Math: Money and Time; Discovery Center

Measurement and Scale

Guided Reading--Scientific Inquiry

Tutorial: Measurement and Scale; Discovery Center

Tutorial: People and Space; Discovery Center

Rocks and Minerals

**Guided Reading--Collecting Rocks
Independent Reading--Rocks as a Hobby**

Tutorial: Rocks and Minerals; Discovery Center

Tutorial: Weather and Climate; Discovery Center

SC.O.5.1.06 formulate conclusions through close observations, logical reasoning, objectivity, perseverance and integrity in data collection.



**Discovery Channel Elementary Science and Mathematics Adventures
Inventors and Inventions
Theater--Velcro**

**Measurement and Scale
Independent Reading--Kelvin**

**Rocks and Minerals
Independent Reading--Rocks as a Hobby**

SC.O.5.1.07 apply skepticism, careful methods, logical reasoning and creativity in investigating the observable universe.

**Discovery Channel Elementary Science and Mathematics Adventures
Inventors and Inventions
Theater--Velcro**

**Measurement and Scale
Independent Reading--Kelvin**

**Rocks and Minerals
Independent Reading--Rocks as a Hobby**

SC.O.5.1.08 use a variety of technologies and scientific instruments to conduct explorations, investigations and experiments of the natural world.

**PLATO® Projects for the Real World, Level E -- Desert Survival
Define the Problem
1. What's the Problem**

**PLATO® Projects for the Real World, Level F -- Climbing Mt. McKinley
Clothing
2. The Right Question**

**Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Guided Reading--Scientific Inquiry**

Tutorial: Astronomy; Discovery Center

Tutorial: Bacteria, Viruses, and Allergies; Discovery Center

Tutorial: Butterflies and Bees; Discovery Center

Tutorial: Dynamic Earth; Discovery Center

Tutorial: Habitats of the World; Discovery Center

Tutorial: Inventors and Inventions; Discovery Center

Tutorial: Math: Money and Time; Discovery Center

**Measurement and Scale
Theater--Length**

Tutorial: Measurement and Scale; Discovery Center

Tutorial: People and Space; Discovery Center

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Rocks and Minerals

Independent Reading--Rocks as a Hobby

Tutorial: Rocks and Minerals; Discovery Center

Tutorial: Weather and Climate; Discovery Center

SC.O.5.1.09 demonstrate safe techniques for handling, manipulating and caring for science materials, equipment, natural specimens and living organisms.

PLATO Modules are not available for this learning expectation.

SC.O.5.1.10 utilize experimentation to demonstrate scientific processes and thinking skills (e.g., formulating questions, predicting, forming hypotheses, quantifying, or identifying dependent and independent variables).

Discovery Channel Elementary Science and Mathematics Adventures

Math: Money and Time

Guided Reading--How Money Developed

Independent Reading--How Money Developed

Independent Reading--How Money is Manufactured

Independent Reading--Money

Independent Reading--The History of US Currency

Rocks and Minerals

Guided Reading--Collecting Rocks

SC.O.5.1.11 construct and use charts, graphs and tables to organize, display, interpret, analyze and explain data.

PLATO® Projects for the Real World, Level E -- Home Health Detective

Is There a Pattern

2. Making Pictographs

PLATO® Projects for the Real World, Level E -- State Visitor's Center

How Hot Is It?

1. Step-by-Step Line Graph

PLATO® Projects for the Real World, Level E -- Desert Survival

Define the Problem

1. What's the Problem

PLATO® Projects for the Real World, Level F -- Climbing Mt. McKinley

Clothing

3. Easy Answers

The Weathermaker

2. Wind Speed

PLATO® Projects for the Real World, Level G -- Yellowstone Connection

Earth Energy

1. Making Graphs



SC.O.5.1.12 use inferential reasoning to make logical conclusions from collected data.

PLATO® Projects for the Real World, Level E -- Home Health Detective

Is There a Pattern

- 1. Reading Pictographs**
- 2. Making Pictographs**

Amazing Allergies

- 2. Using Tables**

PLATO® Projects for the Real World, Level E -- Desert Survival

Define the Problem

- 1. What's the Problem**

Desert Ecosystem

- 3. Charting Problems**

PLATO® Projects for the Real World, Level F -- Food Bank

Food Flow

- 1. Naming and Grouping**
- 2. Flowcharts**

Disaster Plan

- 1. What Could Happen?**

PLATO® Projects for the Real World, Level F -- Climbing Mt. McKinley

The Weathermaker

- 2. Wind Speed**

PLATO® Projects for the Real World, Level G -- Yellowstone Connection

Blue Dot Disease

- 1. Blue Dot Basics**
- 2. Updating the Park Map**

Discovery Channel Elementary Science and Mathematics Adventures

Astronomy

Guided Reading--Scientific Inquiry

Standard 2: Content of Science

SC.O.5.2.01 demonstrate an understanding of the interconnections of biological, earth and space, and physical science concepts.

Discovery Channel Elementary Science and Mathematics Adventures

Dynamic Earth

Independent Reading--Careers in Weather

Habitats of the World

Independent Reading--Zoology

Rocks and Minerals

Guided Reading--Geology

Independent Reading--Geology

Independent Reading--History of Mineralogy



SC.O.5.2.02 identify and explain common energy conversions in cycles of matter including photosynthesis and the carbon dioxide cycle.

PLATO® Projects for the Real World, Level E -- Desert Survival

Saguaro Life Cycle

I. What is a Cycle?

Desert Ecosystem

I. What is an Ecosystem?

Discovery Channel Elementary Science and Mathematics Adventures

Habitats of the World

Theater--Forests

Guided Reading--Rain Forests

Independent Reading--Ecosystems

SC.O.5.2.03 identify the structures of living organisms and explain their function.

PLATO® Projects for the Real World, Level E -- Desert Survival

Saguaro Life Cycle

2. Troubleshooting

Discovery Channel Elementary Science and Mathematics Adventures

Bacteria, Viruses and Allergies

Independent Reading--Disease -- Part 3

Independent Reading--Immune System -- Part 2

Butterflies and Bees

Independent Reading--Butterflies -- Part 1

Independent Reading--Insects -- Part 2

SC.O.5.2.04 observe and identify cells of organisms using a microscope.

Discovery Channel Elementary Science and Mathematics Adventures

Bacteria, Viruses and Allergies

Independent Reading--Bacteriology

SC.O.5.2.05 compare variations of plant growth and reproduction.

PLATO® Projects for the Real World, Level E -- Desert Survival

Saguaro Life Cycle

1. What is a Cycle?

2. Troubleshooting

SC.O.5.2.06 compare and contrast how the different characteristics of plants and animals help them to survive in different niches and environments including adaptations, natural selection, and extinction.

Discovery Channel Elementary Science and Mathematics Adventures

Bacteria, Viruses and Allergies

Independent Reading--The Life of Bacteria

Butterflies and Bees

Theater-- Bees

Guided Reading--Monarch Butterfly



Guided Reading--Predators
Guided Reading--Role of Honey Bees
Guided Reading--Types of Butterflies
Independent Reading--Bumblebees
Independent Reading--Insects -- Part 4

Habitats of the World
Theater--Rain Forests
Theater--Salt Water Marshes
Guided Reading--Big Cats
Guided Reading--Birds
Guided Reading--Insects
Guided Reading--Mammals
Guided Reading--Marsupials
Guided Reading--Reptiles
Independent Reading--Ecosystems

SC.O.5.2.07 through the use of research and technology, explore the extinction of a species due to environmental conditions.

PLATO® Projects for the Real World, Level E -- Desert Survival
Define the Problem
2. Gone Forever

Discovery Channel Elementary Science and Mathematics Adventures
Rocks and Minerals
Guided Reading--Fossils

Weather and Climate
Independent Reading--Determining Past Climates

SC.O.5.2.08 trace and describe the pathways of the sun's energy through producers, consumers and decomposers using food webs and pyramids.

PLATO® Projects for the Real World, Level E -- Desert Survival
Desert Ecosystem
1. What is an Ecosystem?

Discovery Channel Elementary Science and Mathematics Adventures
Bacteria, Viruses and Allergies
Guided Reading--What are Bacteria
Independent Reading--The Importance of Bacteria
Independent Reading--The Life of Bacteria

Butterflies and Bees
Theater-- Butterflies
Independent Reading--Insects -- Part I

Habitats of the World
Theater--Grasslands
Theater--Rain Forests
Guided Reading--Eating Habits
Guided Reading--Predators and Prey
Independent Reading--Ecosystems



SC.O.5.2.09 explain that the mass of a material is conserved whether it is together, in parts, or in a different state.

**PLATO® Projects for the Real World, Level E -- Desert Survival
Desert Ecosystem
I. What is an Ecosystem?**

**Discovery Channel Elementary Science and Mathematics Adventures
Habitats of the World
Independent Reading--Ecosystems**

SC.O.5.2.10 recognize that elements are composed of only one type of matter.

PLATO Modules are not available for this learning expectation.

SC.O.5.2.11 using the periodic table, identify common elements according to their symbols.

PLATO Modules are not available for this learning expectation.

SC.O.5.2.12 through experimentation, identify substances by their relative densities (mass/volume=density).

PLATO Modules are not available for this learning expectation.

SC.O.5.2.13 analyze diagrams of electrical circuits.

PLATO Modules are not available for this learning expectation.

SC.O.5.2.14 measure electricity using voltage and wattage.

PLATO Modules are not available for this learning expectation.

SC.O.5.2.15 investigate the properties of an electromagnet by selecting appropriate materials, designing and testing an electromagnet, and evaluating differences in design.

PLATO Modules are not available for this learning expectation.

SC.O.5.2.16 describe how the variables of gravity and friction affect the motion of objects.

PLATO Modules are not available for this learning expectation.

SC.O.5.2.17 compare and contrast the change in length, tension, or thickness of a vibrating object on the frequency of vibration.

**Discovery Channel Elementary Science and Mathematics Adventures
Measurement and Scale
Guided Reading--Galileo and Pendulum Motion**

SC.O.5.2.18 describe the layers of the earth and their various features.

**PLATO® Projects for the Real World, Level G -- Yellowstone Connection
Hot Spots in Time**



1. Moving Continents
2. Hot Spots Through Time

Discovery Channel Elementary Science and Mathematics Adventures

Astronomy

Independent Reading--Earth Part 1

Independent Reading--Earth Part 2

Rocks and Minerals

Guided Reading--Geology

SC.O.5.2.19 identify and describe natural landforms and explain how they change and impact weather and climate.

PLATO® Projects for the Real World, Level F -- Climbing Mt. McKinley

Clothing

1. Dressing for Success

Discovery Channel Elementary Science and Mathematics Adventures

Dynamic Earth

Independent Reading--Weather Systems

Independent Reading--Why Climates Vary

Weather and Climate

Guided Reading--Weather Extremes

Independent Reading--Weather Systems

Independent Reading--Why Climates Vary

SC.O.5.2.20 use a variety of instruments and sources to collect and display weather data to describe weather patterns.

PLATO® Projects for the Real World, Level E -- State Visitor's Center

How Hot Is It?

1. Step-by-Step Line Graph

PLATO® Projects for the Real World, Level F -- Climbing Mt. McKinley

The Weathermaker

2. Wind Speed

Discovery Channel Elementary Science and Mathematics Adventures

Dynamic Earth

Theater--Hurricane

Theater--Tornado

Guided Reading--Meteorology

Independent Reading--Measuring the Weather

Independent Reading--Weather Forecasting

Weather and Climate

Theater--Weather

Independent Reading--Measuring the Weather

Independent Reading--Reporting the Weather

Independent Reading--Weather Forecasting

Independent Reading--What Causes Weather

SC.O.5.2.21 compare and explain the different rates of weathering, erosion and deposition on various materials.

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Discovery Channel Elementary Science and Mathematics Adventures

Astronomy

Independent Reading--Earth Part 1

Independent Reading--Earth Part 2

Rocks and Minerals

Theater--Erosion

Theater--Rocks

Guided Reading--Erosion

Independent Reading--Geology

SC.O.5.2.22 analyze a topographical map to make inferences related to elevation and land features.

PLATO® Projects for the Real World, Level F -- Food Bank

Fresh Bread

1. Reading a Map

PLATO® Projects for the Real World, Level G -- Yellowstone Connection

Blue Dot Disease

2. Updating the Park Map

SC.O.5.2.23 identify resources as being renewable or non-renewable.

PLATO Modules are not available for this learning expectation.

SC.O.5.2.24 explore and explain how fossils and geologic features can be used to determine the relative age of rocks and rock layers.

Discovery Channel Elementary Science and Mathematics Adventures

Astronomy

Independent Reading--Earth Part 3

Dynamic Earth

Independent Reading--Determining Past Climates

Rocks and Minerals

Theater--Grand Canyon

Weather and Climate

Independent Reading--Determining Past Climates

SC.O.5.2.25 recognize that the Earth is made of plates (plate tectonics).

PLATO® Projects for the Real World, Level G -- Yellowstone Connection

Hot Spots in Time

1. Moving Continents

2. Hot Spots Through Time

Discovery Channel Elementary Science and Mathematics Adventures

Astronomy

Independent Reading--Earth Part 2

Rocks and Minerals

Guided Reading--Plate Tectonics

Standard 3: Application of Science

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SC.O.5.3.01 explore the relationship between the parts of a system to the whole system.

PLATO Modules are not available for this learning expectation.

SC.O.5.3.02 construct a variety of useful models of an object, event, or process.

Discovery Channel Elementary Science and Mathematics Adventures
Measurement and Scale
Theater--Scale
Guided Reading--Why Scientists Use Models

SC.O.5.3.03 compare and contrast changes that occur in an object or a system to its original state.

PLATO Modules are not available for this learning expectation.

SC.O.5.3.04 compare and contrast the influence that a variation in scale will have on the way an object or system works. (e.g., cooling rates of different-sized containers of water, strength of different-sized constructions from the same material, or flight characteristics of different-sized model airplanes).

Discovery Channel Elementary Science and Mathematics Adventures
Measurement and Scale
Theater--Scale
Guided Reading--Why Scientists Use Models

SC.O.5.3.05 research everyday applications and interactions of science and technology.

Discovery Channel Elementary Science and Mathematics Adventures
Inventors and Inventions
Independent Reading--Charles Townes

SC.O.5.3.06 evaluate and critically analyze mass media reports of scientific developments and events.

PLATO Modules are not available for this learning expectation.

SC.O.5.3.07 explore the connections between science, technology, society and career opportunities.

Discovery Channel Elementary Science and Mathematics Adventures
Astronomy
Independent Reading--Earth Part I

Bacteria, Viruses and Allergies
Independent Reading--Bacteriology

Dynamic Earth
Theater--Hurricane
Theater--Lightning
Theater--Tornado



Theater--Tsunami
Guided Reading--Meteorology
Guided Reading--Tools
Independent Reading--Careers in Weather
Independent Reading--Measuring the Weather
Independent Reading--Weather
Independent Reading--Weather Forecasting

Habitats of the World
Independent Reading--Zoology

People and Space
Theater--The Astronauts
Guided Reading--Microgravity
Guided Reading--Staying Safe in Space
Guided Reading--Working in Space
Independent Reading--Human Beings Enter Space 2

Rocks and Minerals
Guided Reading--Fossils
Guided Reading--Geology
Independent Reading--Careers in Geology

Weather and Climate
Independent Reading--Careers in Weather