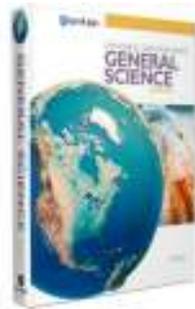




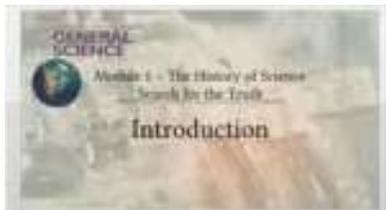
Exploring Creation with General Science 3rd Edition



Video Instruction

Jump to Module: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#)

Module 1: The History Of Science - Search For The Truth



[Introduction \(3:02\)](#)



[The Earliest Science: Ancient Times-600 BC \(4:13\)](#)
Egypt
Other Cultures



[True Science Begins to Emerge: 600 BC-AD 500 \(14:36\)](#)
Three Greek Scientists
Two More Greek Scientists
Experiment 1.1: Density in Nature
Hypothesis
Even More Greek Scientists



[Science Progress Stalls and Then Gets Moving Again: AD 500-1500 \(15:57\)](#)
Alchemy
Experiment 1.2: A Chemical Reaction
Other Medieval Cultures
End of the Dark Ages



[The Renaissance: The "Golden Age" of Science: AD 1500-1660 \(5:41\)](#)



[The Era of Newton AD 1660-1735 \(3:02\)](#)



[The "Enlightenment" and the Industrial Revolution: AD 1735-1820 \(8:16\)](#)



[The Rest of the 19th Century: AD 1820-1900 \(6:45\)](#)



[Modern Science: AD 1900-Present \(4:06\)](#)



[Summing Up \(1:57\)](#)

Module 2: Scientific Inquiry And The Scientific Method



[Introduction \(0:43\)](#)



[Wrong Science \(8:57\)](#)

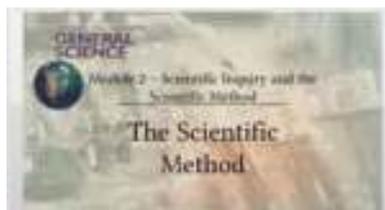
Experiment 2.1: How Weight Affects the Speed at Which Objects Fall
 Experiment 2.2: More about How Weight Affects the Speed at Which Objects Fall



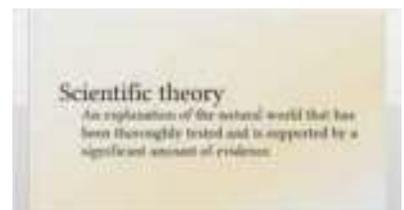
[Systematic Experiments \(2:21\)](#)



[What Science Cannot Do \(6:29\)](#)
 Scientific Conclusions



[The Scientific Method \(12:53\)](#)
 Experiment 2.3: Surface Tension of Water



[A Recap of the Scientific Method \(3:56\)](#)



[Does the Scientific Method Always Prove True? \(8:35\)](#)
 The Story of Lowell



[The Limitations and Misuses of Science \(6:42\)](#)
 Limitations of Science



[Science and Christianity \(6:26\)](#)
 Gathering Information for Science
 Analyzing Information for Science

What Other Scientists Thought
What New Information Revealed

Misuse of Science



[Summing Up \(1:05\)](#)

Module 3: Documenting And Interpreting Experimental Results



[Introduction \(0:43\)](#)



[Experiments and Variables \(14:10\)](#)
Experiment 3.1: Density and a Floating Egg
Experimental Variables

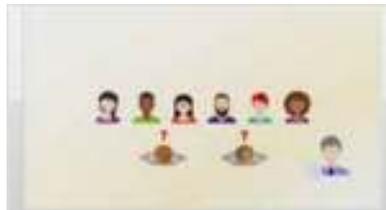


[Recording Experimental Data \(4:55\)](#)



[Using a Series of Experiments \(17:55\)](#)

Experiment 3.2: Exploring a Flame's Oxygen Use
Experiment 3.3: The Effect a Burning Candle Has on Air



[Recognizing Experimental Variables When They Are Not Obvious \(7:58\)](#)



[Interpreting and Recording Results of Experiments \(14:29\)](#)

More on Bar Graphs
Circle Graphs
Line Graphs
Creating a Line Graph
Infographics



[Summing Up \(0:41\)](#)

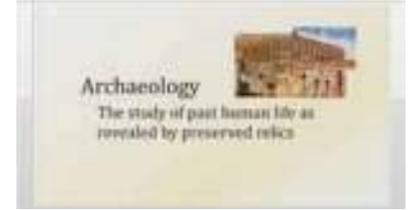
Module 4: Scientific Analysis And History



[Introduction \(1:00\)](#)



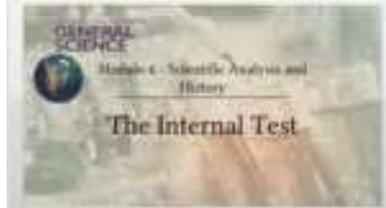
[Pure Science, Applied Science, and Technology \(4:35\)](#)



[Archaeology \(2:28\)](#)



[Historical Records \(4:48\)](#)



[The Internal Test \(5:55\)](#)
The Internal Test and the Bible



[The External Test \(5:51\)](#)
The External Test and the Bible



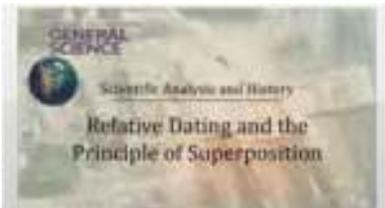
[The Bibliographic Test \(8:16\)](#)
The Bibliographic Test and the Bible



[Age Testing and Dendrochronology \(12:31\)](#)
Experiment 4.1: Dendrochronology



[Age Testing and Radiometric Dating \(2:02\)](#)



[Relative Dating and the Principle of Superposition \(4:13\)](#)



[Summing Up \(0:43\)](#)

Module 5: Earth Science-Astronomy



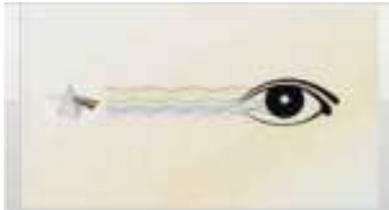
[Introduction \(1:27\)](#)



[What Is Astronomy \(3:25\)](#)



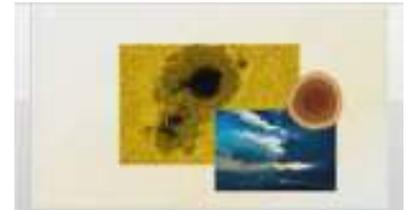
[Tools to Study the Heavens \(8:11\)](#)
Experiment 5.1: Make a Sundial Telescopes



[Wavelengths of Light \(2:09\)](#)



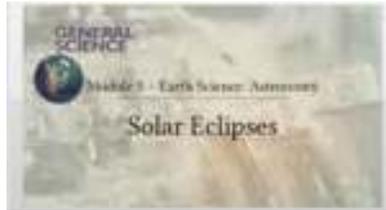
[The Sun \(4:23\)](#)



[The Sun's Surface \(4:14\)](#)



[The Sun's Interior and Exterior \(2:20\)](#)



[Solar Eclipses \(4:13\)](#)
Power of the Sun



[Planets \(8:30\)](#)



[The Moon \(10:25\)](#)
The Moon's Atmosphere
The Moon's Features
The Moon's Phases



[More about the Moon \(3:10\)](#)
Tides
Lunar Eclipses
Moon Exploration



[Non-Planetary Bodies \(5:40\)](#)
Minor Planets
Kuiper Belt and Oort Cloud



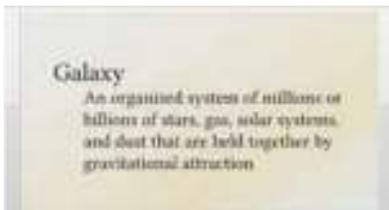
[Comets \(3:01\)](#)



[Meteors \(7:32\)](#)
Experiment 5.2: Friction



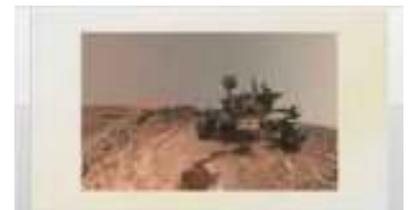
[Stars \(9:57\)](#)



[Galaxies \(1:50\)](#)



[Extrasolar Planets \(2:18\)](#)



[Exploration of Space \(1:48\)](#)

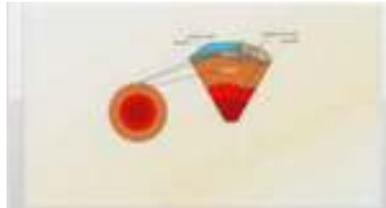


[Summing Up \(1:10\)](#)

Module 6: Earth Science - Geology And Paleontology



[Introduction \(0:34\)](#)



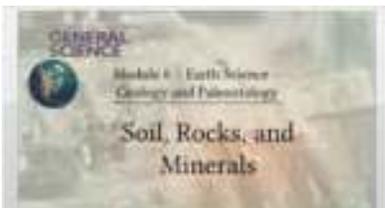
[The Earth's Structure \(12:11\)](#)

Earth's Crust
Earth's Mantle
Earth's Core



[The Lithosphere \(6:27\)](#)

The Hydroplate Theory



[Soil, Rocks, and Minerals \(12:59\)](#)

Experiment 6.1: "Growing" Crystals



[The Earth's Surface \(4:47\)](#)



[Types of Weathering \(10:26\)](#)

Erosion



[Sedimentary Rock Strata \(6:35\)](#)

Experiment 6.2: Separation of Sedimentation



[The Basic Structure of the Grand Canyon \(8:36\)](#)



[The Fossil Record and Its Features \(9:28\)](#)

Fossil Formation



[General Fossil Record Features \(5:56\)](#)



[Geology and Paleontology Perspectives \(11:00\)](#)

The Uniformitarian Perspective
The Catastrophist Perspective



[The Geological Record and Uniformitarianism \(7:20\)](#)



[The Geological Record and Catastrophism \(7:00\)](#)



[One More Age Issue \(2:29\)](#)



[Summing Up \(1:08\)](#)

Module 7: Earth Science - Meteorology And Oceanography



[Introduction \(0:48\)](#)



[Meteorology \(2:11\)](#)



[Earth's Atmosphere \(9:36\)](#)



[What Causes Weather? \(6:52\)](#)



[Atmospheric Water \(9:55\)](#)

Clouds
Experiment 7.1: Make Some Clouds



[Fronts \(2:49\)](#)



[Storms \(6:36\)](#)

Lightning
Tornadoes
Hurricanes



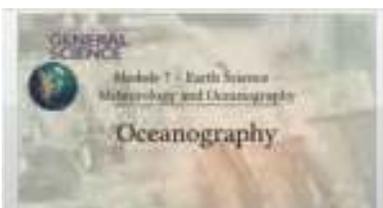
[Weather Prediction \(9:56\)](#)

Temperature
Pressure
Experiment 7.2: Build Your Own
Barometer
Humidity
Wind Direction and Speed



[Climate \(9:29\)](#)

ENSO
Global Warming



[Oceanography \(2:01\)](#)

What Is Ocean Water?



[Ocean Motion \(3:39\)](#)

Currents
Waves and Tides



[Ocean Geography \(2:35\)](#)



[Ocean Exploration and Study \(3:07\)](#)



[Summing Up \(0:49\)](#)

Module 8: General Chemistry



[Introduction \(1:05\)](#)



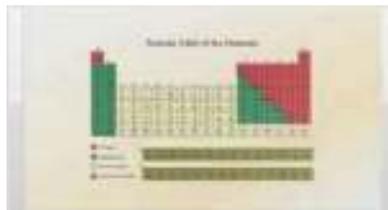
[Matter \(9:03\)](#)
States of Matter



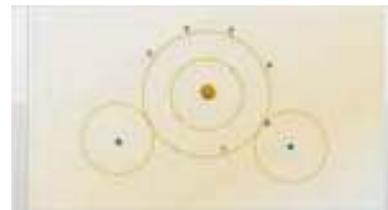
[Atoms \(9:15\)](#)
Atomic Structure



[Elements \(7:51\)](#)
Experiment 8.1: Exposing Elements to Fire



[The Periodic Table of the Elements \(8:08\)](#)



[Bonds \(9:40\)](#)



[Chemical Reactions \(10:41\)](#)
Experiment 8.2: Separating a Mixture of Sand and Salt



[Chemical Versus Physical Changes \(9:12\)](#)
Chemical Changes



[Types of Molecules \(17:11\)](#)
Crystals
Polymers and Plastics
Acids and Bases

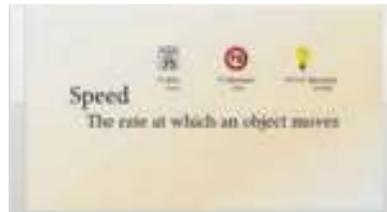


[Summing Up \(0:49\)](#)

Module 9: General Physics



[Introduction \(0:50\)](#)



[Motion \(9:45\)](#)
Speed, Velocity, and Acceleration



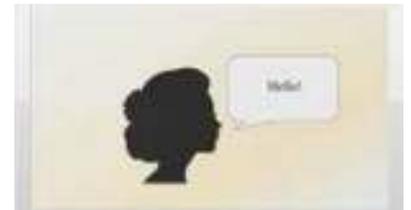
[Newton's 3 Laws of Motion \(15:16\)](#)
Newton's First Law
Experiment 9.1: Exploring Friction
Newton's Second Law
Newton's Third Law



[More about Forces \(1:24\)](#)
Gravitational Force
Electromagnetic Force
Experiment 9.2: Building an Electric Circuit
Magnetism



[Simple Machines \(9:46\)](#)
The Lever
The Wheel and Axle
The Pulley
The Inclined Plane
The Wedge
The Screw



[Waves and Sound \(12:57\)](#)
Speed of Sound
Explaining Wave Anatomy
Experiment 9.3: Wavelength, Frequency, and Sound



[Light \(8:03\)](#)
How We Perceive Color
Reflection and Refraction



[Summing Up \(0:40\)](#)

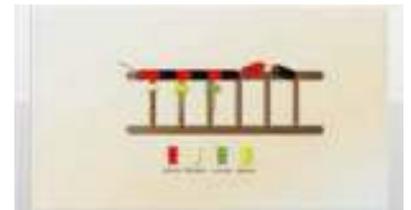
Module 10: Life Science



[Introduction \(0:48\)](#)



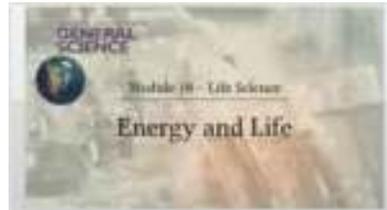
[DNA and Life \(5:04\)](#)



[The Structure of DNA \(18:17\)](#)
Experiment 10.1: Building a Candy Model of DNA



[Reproduction and Life \(4:45\)](#)



[Energy and Life \(10:34\)](#)
Experiment 10.2: Finding Food in Plants



[Sensing and Responding to Change \(3:22\)](#)



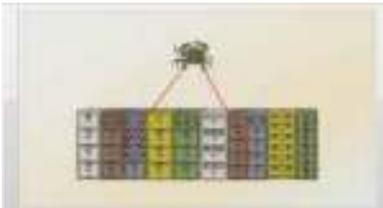
[The Cell \(3:49\)](#)



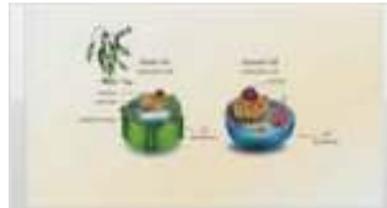
[Regulation and Life \(1:00\)](#)



[Growth and Life \(0:49\)](#)



[Biological Classification \(11:41\)](#)
Classification



[The 3 Domains in Creation \(15:51\)](#)
Domain Archaea
Domain Bacteria
Domain Eukarya



[Taxonomy \(3:22\)](#)

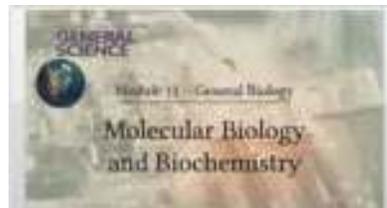


[Summing Up \(1:20\)](#)

Module 11: General Biology



[Introduction \(1:06\)](#)



[Molecular Biology and Biochemistry \(5:18\)](#)
The Chemicals of Life

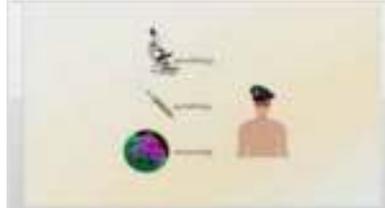


[Cell Biology \(9:43\)](#)
Cell Structures
Cell Anatomy



[Microbiology \(16:24\)](#)

Experiment 11.1: Growing a Yeast Culture
Parasitology



[Immunology \(2:49\)](#)

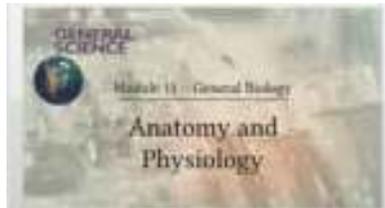


[Mycology \(3:52\)](#)



[Botany and Plant Physiology \(0:20\)](#)

Plant Structures
Experiment 11.2: Leaf Collection and Identification
Leaf Color
Roots and Stems
Plant Classification



[Anatomy and Physiology \(10:50\)](#)



[Zoology \(3:16\)](#)



[Genetics \(7:18\)](#)



[Evolutionary Biology \(1:31\)](#)

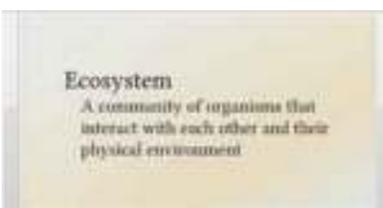


[Other Branches of Biology \(1:33\)](#)



[Summing Up \(0:42\)](#)

Module 12: Marine Science



[Introduction \(1:28\)](#)



[The Oceans of the Earth \(10:48\)](#)
Experiment 12.1: An Edible Ocean Layer

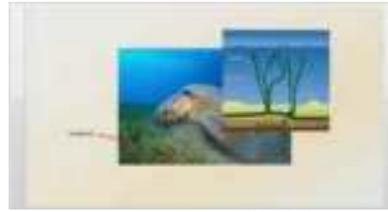


[Tiny Ocean Organisms \(1:31\)](#)

Model



[Marine Algae \(3:23\)](#)
The Plankton



[Marine Plants \(0:54\)](#)



[Ocean Invertebrates \(12:14\)](#)
Sponges
Jellyfish
Anemones
Corals



[Armored Ocean Invertebrates \(8:20\)](#)
Mollusks
Arthropods
Echinoderms



[Non-Bony Fishes \(6:42\)](#)
Sharks
Rays



[Bony Fishes \(6:50\)](#)
Experiment 12.2: Shark and Fish Buoyancy



[Other Marine Vertebrates \(13:48\)](#)
Reptiles and Birds
Marine Mammals



[Marine Environments \(10:57\)](#)



[Ocean Conservation \(0:34\)](#)



[Summing Up \(0:35\)](#)

Module 13: Environmental Science



[Introduction \(0:37\)](#)



[Ecosystem Influences \(4:39\)](#)



[Food Relationships \(23:02\)](#)
Experiment 13.1: Composting
Food Chains and Food Webs



[Symbiosis \(2:07\)](#)



[Ecological Cycles \(2:32\)](#)



[Organization in Ecology \(10:18\)](#)
Tundra
Tropical Rainforest
Temperate Grassland



[Ecological Succession \(4:32\)](#)



[Man and the Environment \(23:54\)](#)
Experiment 13.2: Estimating Population
Size
Your Worldview



[Summing Up \(0:53\)](#)

Module 14: Science And Creation



[Introduction \(2:31\)](#)



[Rube Goldberg Machine
Experiment Setup 1 \(2:54\)](#)
Modules 1-4: The History of Science-
Search for the Truth; Scientific Inquiry
and the Scientific Method; Documenting
and Interpreting Experimental Results;
and Scientific Analysis and History
Module 5: Earth Science-Astronomy



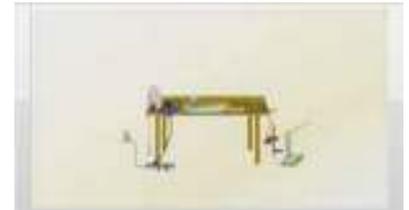
[Rube Goldberg Machine
Experiment Setup 2 \(2:32\)](#)
Module 6: Earth Science-Geology and
Paleontology
Module 7: Earth Science-Meteorology
and Oceanography



[Rube Goldberg Machine Experiment Setup 3 \(2:08\)](#)
Module 8: General Chemistry
Module 9: General Physics



[Rube Goldberg Machine Experiment Setup 4 \(2:55\)](#)
Module 10: Life Science
Module 11: General Biology



[Rube Goldberg Machine Experiment Setup 5 \(2:05\)](#)
Module 12: Marine Science
Module 13: Environmental Science



[Rube Goldberg Machine Experiment Finale \(12:00\)](#)



[Summing Up \(0:43\)](#)