

Course Title: Exploring Science!

Level: Middle School

Teacher(s): Allison Gage
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Description

An introduction to ecosystems, chemistry, physics, explorers, scientists, and medicine presented in a very readable and hands-on way using 5 books from the Exploring Science Series. This series is written from a Biblical, Creationist viewpoint at about a 6th grade reading level.

The goals of this class are to encourage students to enjoy science while teaching them how to prepare and study for future science classes, as well as introduce them to multiple scientific topics. There will be abundant exposure to concepts, vocabulary, and scientific knowledge which will be acquired by reading weekly assignments, studying for quizzes, preparing pre-labs, performing cool science experiments, and creating fun, informative projects.

Grades will be given.

Class time will be spent taking quizzes, performing relevant (but really fun!) experiments and projects. These may include, but are not limited to: biosphere in a bottle, make your own slime, rocket, and compass, and experiments that prove microbes are found in the air around us. This will be a very “hands-on” course!

Additional Class Fees (if any): None

Required Supplies:

Books:

Exploring the World Around You by Gary Parker

Exploring the World of Chemistry by John Tiner

Exploring the World of Physics by John Tiner

Exploring the History of Medicine by John Tiner

Exploring Planet Earth by John Tiner

These books are around \$14.00 each and can be bought separately. They are also available within the 6 book series which can be found for around \$60. We will be using The World Around You, Planet Earth and The World of Chemistry the first semester and The History of Medicine and The World of Physics books the second semester.

Prerequisites: Good reading skills.

Homework Requirements:

Reading assignments: Approximately 30 minutes per week.

Pre-labs: Approximately 15 minutes per week. These are extremely important. The student needs to read and understand the instructions for the upcoming lab experiments before coming to class so as not to do the experiment incorrectly. This becomes even more important in the upper level sciences.

Study for quizzes: Varies

Projects: At least 4 homework projects will be assigned. They will be very general and will have options that will encourage the student to be creative in their projects.

Additional Course Information:

Some of the units that will be covered are as follows:

Exploring The World Around You: A Look at Nature from Tropics to Tundra

God created the earth perfectly for life

Ecosystems

Biomes

Temperature

Food Chains

Exploring The World of Chemistry: From Ancient Metals to High-Speed Computers

Metals

Gases

Diamonds

Electrons

Carbon, Nitrogen, Silicon

Exploring the History of Medicine: From the Ancient Physicians of Pharaoh to Genetic Engineering

The first physicians

Bacteria & Viruses

Smallpox & Edward Jenner

Louis Pasteur

Antiseptics & Joseph Lister

Scurvy

X-Rays

Exploring the World of Physics: From Simple Machines to Nuclear Energy

Isaac Newton

Laws of motion

Gravity

Energy

Matter

Magnetism

Exploring Planet Earth:

Marco Polo

Navigation

Latitude & Longitude

Vasco de Gama

Christopher Columbus

Leif Eriksson

Wind & Tides

The Compass

Lewis & Clark

Flight

Exploring below the earth, beneath the sea, and into space