

REAL Science for Kids level 1

Class Description: In this science course, the student will study Chemistry, Biology, and Physics. Each lesson has reading materials, student worksheets, a lab or experiment, and follow-up questions. In the Chemistry unit, the student will learn about mixtures, matter, acids and bases, polymers, and more. In the Biology unit, the student will study about photosynthesis, protists, and life cycles. And in the Physics section, the student will learn about energy, motion, light, sound, and so on.

Learning Materials: Main Curriculum:
REAL Science for Kids level 1

Learning Goals/Performance Objectives: 1.1.2 Understand the position and motion of common objects.
2.1.1 Understand how to ask a question about objects, organisms, and events in the environment.
2.2.2 Understand that observations and measurement are used by scientists to describe the world.
3.2.2 Know that people have invented tools for everyday life.
3.2.4 Understand how humans depend on the natural environment.

Learning Activities: The student will work through approximately 3 lessons per month. Each lesson has reading materials, student worksheets, a lab or experiment, and follow-up questions.

Real Science for Kids Level 1 Course Content/Timeline:

CHEMISTRY

- Ch. 1: Matter
- Ch. 2: Molecules
- Ch. 3: Chemical Reactions
- Ch. 4: Acids, bases, and pH
- Ch. 5: Acid-Base Neutralization
- Ch. 6: Mixtures
- Ch. 7: Separating Mixtures
- Ch. 8: Energy Molecules
- Ch. 9: Polymers
- Ch. 10: Biological Polymers DNA and Protein

BIOLOGY

- Ch. 1 Living Creatures
- Ch. 2: Cells-The Building Blocks of Life
- Ch. 3: Photosynthesis
- Ch. 4: Parts of a Plant
- Ch. 5: How a Plant Grows
- Ch. 6: Protists I
- Ch. 7: Protists II
- Ch. 8: The Frog Life Cycle
- Ch. 9: The Butterfly Life Cycle
- Ch. 10: Our Balanced World

PHYSICS

- Ch. 1: What is Physics?
- Ch. 2: Force, Energy, and Work
- Ch. 3: Potential and Kinetic Energy
- Ch. 4: Motion
- Ch. 5: Energy of Atoms and Molecules
- Ch. 6: Electrical Energy and Charge
- Ch. 7: Moving Electric Charges and Heat
- Ch. 8: Magnets and Electromagnets

Ch. 9: Light and Sound
Ch. 10: Conservation of Energy

Progress Criteria/Methods of Evaluation: Evaluation will be based on successful completion of at least 70% of the materials/goals with a minimum of 70% accuracy. Student may correct work and retake quizzes to reach the accuracy level.

Sept: Complete lessons 1-3 Chemistry
Oct: Complete lessons 4-6 Chemistry
Nov: Complete lessons 7-9 Chemistry
Dec: Complete lesson 10 Chemistry; Lesson 1-2 Biology
Jan: Complete lessons 3-5 Biology
Feb: Complete lessons 6-8 Biology
March: Complete lessons 9-10 Biology; Lesson 1 Physics
April: Complete lessons 2-4 Physics
May: Complete lessons 5-7 Physics
June: Complete lessons 8-10 Physics