

REAL Science Odyssey LIFE, level 1 (grades 1-4)

Class Description:

In RSO level one, students learn about the scientific method. They learn how to speculate, hypothesize, experiment, and conclude, while developing observation skills. Analytical skills are encouraged through comparing, forming questions, and interpretations. REAL Life Science covers what life is; different systems of the body, including skeletal, circulatory, respiratory, digestive, and nervous systems; the animal kingdom; the plant kingdom; and more.

Learning Materials: Main Curriculum:

Real Science Odyssey: LIFE Level 1 by Pandia Press

Learning Goals/Performance Objectives: 1.1.6 Understand how to distinguish living from nonliving and how to use characteristics to sort common organisms into plant and animal groups.
1.2.1 Analyze how the parts of a system go together and how these parts depend on each other.
1.2.8 Understand the organization and function of human body structures and organs and how these structures and organs interconnect.
1.3.8 Understand that living things need constant energy and matter.
2.1.1 Understand how to ask a question about objects, organisms, and events in the environment.

Learning Activities: The following is a list of topics the student will learn during the year while completing LIFE (level one). Each topic and/or subtopic will include 1 to 4 lessons complete with lesson story, labs, reading, and other activities.

Unit 1: What is Life?

Unit 2: The Cell

Unit 3: The Human Body

Unit 4: Skeletal and Muscular Systems

Unit 5: Circulatory System

Unit 6: Respiratory System

Unit 7: Digestive System

Unit 8: Nervous System

Unit 9: Growth and Genetics

Unit 10: Five Kingdoms of Living Things

Unit 11: Animal Kingdom

Unit 12: Cnidaria

Unit 13: Worms

Unit 14: Mollusks

Unit 15: Echinoderm

Unit 16: Arthropod & Insects

Unit 17: Arthropod – Arachnids

Unit 18: Arthropod –Crustaceans

Unit 19: Vertebrates –Introduction

Unit 20: Vertebrates—Fish

Unit 21: Vertebrates—Amphibians

Unit 22: Vertebrates—Reptiles

Unit 23: Vertebrates—Birds
Unit 24: Vertebrates—Mammals
Unit 25: Plant Kingdom—Flowers
Unit 26: Plant Kingdom—Seeds
Unit 27: Plant Kingdom—Leaves
Unit 28: Plant Kingdom—Stems and Roots

Progress Criteria/Methods of Evaluation: For successful completion of this course, the student will complete at least 70% of the lessons/goals, at a minimum of 70% accuracy, following the timeline below. The timeline includes reviews and student work. Formative assessments will be given as deemed necessary, and there will be a summative assessment at the end of each unit.

Sept Complete Units 1-4
Oct Complete Units 5-8
Nov Complete Units 9-12
Dec Complete Units 13-14
Jan Complete Units 15-18 (partway)
Feb Complete Units 18 (last half)-21
March Complete Units 22-24
April Complete Units 25-26
May Complete Units 27-28
June Review