

Department: Science

Course Name: Science 7 – Life Science

Course Description:

Seventh Grade Science is a basic life science course that provides students with an understanding of the major tenets of biology. This course is designed to build a foundation for future studies in the biological sciences. Students study living organisms at all levels of the hierarchy from interactions at the sub cellular level to complex organisms. Learning through exploration and problem analysis develops thinking skills.

Content:

Introduction to Life Science and Scientific Method
Classification of Living Things
Evolution and Adaptations to Environmental Change
Cells and Cellular processes
Introduction to Heredity and Genetics
Bacteria, Protists, Viruses, and Fungi
Plant Structure and Processes
Ecology
Organ Systems

Skills:

Apply the scientific method in the investigation of a simple problem
Collect data using laboratory and field methods
Deploy laboratory and field equipment to investigate problems
Practice measurement skills and conversions
Organize information in chart or graph
Identify variables, follow methods, analyze, and draw conclusions from student generated data
Communicate their findings in laboratory reports
Create presentations using basic technological applications
Develop basic dissection skills
Apply deductive or inductive reasoning to connect facts, ideas, or events
Observe and develop awareness of interactions between living things and their environment
Utilize learning management system

Text and Resources:

McGraw Hill Life Science

Methods of Instruction:

Laboratory experiments
Laboratory Reports
Demonstrations illustrating methods of experimentation
Project based learning
Class discussion with emphasis on integrating concepts
Computer simulations
Lecture
Scientific Sketching

Apple iPad application
Interactive presentations and apps

Methods of Evaluation:

Laboratory investigations

Lab Reports

Projects

Class participation

Tests

Quizzes

Online assessments

