

Department: Science

Course Name: Science 6 – General Science

Course Description:

Sixth Grade Science is a general science course designed to provide our tech-savvy middle school students with the scientific knowledge and skills to allow them to perform successfully in higher level science courses. The emphasis of this course is to explore, discover and understand basic chemistry, physical science, life science, and computer science concepts through hands-on scientific investigations.

Content:

Introduction to Science

Scientific Method

Measurement Metric System

Introduction to Plants

Introduction to Animals

Inheritance and Adaptations

Interactions of Life

Introduction to the Microscope

Forces and Motion

Simple Machines

Property of Matter

The Periodic Table

Mixtures and Compounds

Energy

Waves

Electricity

Magnetism

Computer Science

Skills:

Develop an understanding of scientific principles and methods

Develop an understanding of creating and interpreting charts and graphs

Use basic laboratory and field equipment

Introduce Students to Vernier technologies

Calculate measurements and unit conversions

Construct lab reports using a standard lab report format

Practice scientific writing skills

Demonstrate an understanding of the concept of energy in all aspects of the universe

Find successes in failed attempts

Basic computer science and block coding fundamentals

Learning Management System

Text

Book Title: Glencoe Integrated Science, First Edition

ISBN-10: 007888005X

Resources:

Laboratory skills
Vernier Science Technology
LabQuest Computers
Metric System Use and Conversions
Laboratory experiments
Videos
Informational Handouts

Methods of Instruction:

Lab work
Projects
Group collaboration
Lectures
Interactive presentations

Methods of Evaluation:

Oral participation
Lab work and Data Analysis
Tests, Quizzes
Projects
Individual and Group Work

