Sixth Grade Science

Instructor:

Mr. Rick Owen

The main focus of 6th grade science is to introduce the students to the major areas of study in science and prepare them to work in a lab environment safely.

**Biology**

Textbook: From Bacteria to Plants

Topics covered:

Living Things

-What is Life?

-Classifying Organisms

-Domains and Kingdoms

Introduction to Plants

-The Plant Kingdom

-Photosynthesis and Light

-Mosses, Liverworts, and Hornworts

-Ferns, Club Mosses, and Horsetails

Seed Plants

-The Characteristics of Seed Plants

-Plant cells

-Plant Responses and Growth

**Earth Science:**

Textbook: Weather and Climate

Topics covered:

The Atmosphere

-composition of air

-air pressure

-layers of the atmosphere

Weather Factors

-Energy in Earth’s atmosphere

-Heat Transfer

-Winds

-Water in the atmosphere

-Precipitation

Weather Patterns

-Air masses and Fronts

-Storms

-Predicting the weather

**Chemistry**

Textbook: Chemical Building Blocks

Topics Covered:

Introduction to Matter:

-Describing Matter

-Measuring Matter

-Changes in Matter

-Energy and Matter

Solids, Liquids, and Gases

-States of Matter

-Changes of State

-Gas Behavior

-Graphing Gas Behavior

Elements and the Periodic Table

-Introduction to Atoms

-Organizing the Elements

-Metals

-Nonmetals and Metalloids

**Physics**

Textbook: Motion, Forces, and Energy

Topics Covered:

Motion

-Describing and Measuring Motion

-Slow Motion on Planet Earth

-Acceleration

Forces

-The Nature of Force

-Friction and Gravity

-Newton’s First and Second Laws

-Newton’s Third Law

-Rockets and Satellites

Energy

-What is Energy?

-Forms of Energy

-Energy Transformations and Conservation

-Energy in Fossil Fuels

**Grading Policy**

All assignments are graded based on a 100 point scale. Classwork, labs, and quizzes will count one time in the gradebook. Tests and projects will count three times in the gradebook. Students will be given ample time to complete assignments in class. If the assignment is not completed in class it may need to be completed in study hall or at home. Those assignments will need to be turned in the next day or a late penalty will be assessed. Any assignment not turned in will scored as a zero. Students will be given three days to turn in owed work. Each day the assignment is late they will lose 10 points. After day three the assignment will remain a zero.

Students will be given the opportunity to make corrections to any graded assignment and raise their grade. The first marking period, any grade below an 85 can be raised to a 95. The second marking period, any grade below a 75 can be raised to an 85. The third marking period, any grade below a 65 can be raised to a 75. The final marking period (4th), any grade below a 55 can be raised to 65.