



## 8<sup>th</sup> Grade Science

Science should be informative, engaging and exciting for each student in 8<sup>th</sup> grade. Together we will explore a variety of science topics and through various means assess our learning.

Below you will find the titles of each of the subjects that we will be studying, and a brief description of the content within each of these areas. There is also a list of supplies that will be needed for each student to be successful in the science classroom. Together I hope that we will have a positive learning experience that will assist each student in their academic future.

### **Textbook Titles and/or Subjects**

#### **Environmental Awareness**

- Earth Day/Going Green-Watershed Model, Groundwater Model and Silent Spring read
- Global Warming/Prehistoric Illinois-Investigations of prior Ice Ages and Carbon Footprints
- Alternative Energy-Research project
- Major Lab Work-Energy Bike and Wind Turbine labs
- Monthly observations of “Westfield” Landfill

#### **Human Body Systems (textbook)**

- Structure and Movement-Skeletal System, Muscular System and Skin
- Circulation-Circulatory System, Blood and Lymphatic System
- Respiration and Excretion-Respiratory System and Excretory System
- Control and Coordination-Nervous System
- Major Lab Work-Owl pellet dissection and lab write-up

#### **Motion, Forces, and Energy (textbook)**

- Motion and Momentum-Motion, Acceleration, and Momentum
- Force and Newton’s Laws-Newton’s First, Second and Third Laws of Motion
- Work and Simple Machines-Work and Power, Using Machines, and Simple Machines
- Energy and Energy Resources-Energy, Energy Transformations, and Sources of Energy
- Major Lab Work-Car Safety Testing and Roller Coaster labs

### **Waves, Sound and Light (textbook)**

- Waves-Waves, Wave properties, and Wave Behavior
- Light, Mirrors and Lenses-Properties of Light, Reflection and Mirrors, Refraction and Lenses, using mirrors and lenses
- Electromagnetic Waves-Electromagnetic Spectrum, Using Electromagnetic Waves
- Sound-What is sound? And music (if time allows)
- Major lab work-Musical instrument project constructed with recycled or reused items (if time allows)

### **Supplies**

- Notebook
- Lead pencils, markers and/or colored pencils
- Highlighters
- School Plan Book
- Textbook
- Blue or black pens for written work
- Red pen for corrections
- Post-its

### **Project Items-date needed will be announced**

- Shoe box lid for Owl Pellet Project
- Styrofoam trays from vegetables and/or meats (clean and dried) for Car Safety Lab
- Lids from milk jugs, Gatorade, juice bottles, etc. for Car Safety Lab

### **Grades**

- Tests 35%
- Projects 25%
- Labs 25%
- Homework 25%

### **Assignments**

- Reading and note-taking
- Projects
- Occasional review sheets on the section

#### **Contact information**

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