

Name of School:

Name of Course: **8<sup>th</sup> Grade Physical Science**

### **Instructor Information**

**Name:**  
**E-mail address:**  
**School phone number:**  
**Web page address:**  
**Best times to be reached:**

### **Course Description**

Eighth grade science is the investigation of the principles, lab procedures, and applications associated with Physical Science. This course provides students an opportunity to explore physical science through direct instruction, hands-on activities, research, and student inquiry.

### **District Standards and Power Benchmarks**

#### **Standard 1: Understands and applies principles of scientific inquiry**

Benchmark 1: Understands how scientific knowledge changes with new evidence  
Benchmark 2: Uses the scientific method to gather, analyze, and interpret data  
Benchmark 3: Uses appropriate tools for scientific investigations  
Benchmark 4: Demonstrates safe handling procedures

#### **Standard 2: Understands and applies principles of physical science**

Benchmark 1: Uses atomic and molecular theory to show patterns in elements  
Benchmark 2: Describes physical and chemical properties of elements and other substances  
Benchmark 3: Explains the motion of objects by describing forces acting on them  
Benchmark 4: Explains the behavior of energy by using models of energy transmission

### **Course Information**

This is a one-year course that is required for all eighth grade students. One credit is earned for the completion of this course.

### **Course Outline/Calendar**

- I. Scientific Inquiry
- II. Metric
- III. Lab Safety
- IV. Sound and Light Waves
- V. Electricity and Magnetism
- VI. Physical and Chemical Properties
- VII. Atomic Theory
- VIII. Forces

### **Text/Other Required Materials/Resources**

Hsu, Tom (2005). Foundations of Physical Science. Peabody, MA: CPO Science (available in classroom)  
*Science World* magazine (available in the classroom)  
Science Journal (notebook provided by student)

### **Instructional Procedures & Support**

Students will receive an “I” for incomplete assignments and mid-term and quarter reports. Students will have two weeks after quarters 1, 2, and 3 to complete work in accordance to district policy.

### **Classroom Management Procedures**

### **Assessment Plan**

The students are assessed on a point system. In addition to classwork, labs, tests and quizzes, journal entries, and projects, the students are assessed on: District Density Assessment, Periodic Table Assessment, and a Spreadsheet Integration Project.

### **Grading System**

90 – 100	A
80 – 89	B
70 – 79	C
0 – 69	Incomplete
	60 – 69 D
	0 – 59 F