

# **Fernbank Science Center**

Title:LETS GET PHYSICAL (4826 )Type:OutreachLevel:HS Physical ScienceLength:55 minutesLocation:Local SchoolLimit:1 class/period

# **Program Description**

Through instructor demonstration and some student-teacher participation, this program is designed to focus the students' attention on physical properties and physical changes and to increase the students' knowledge and awareness of physical science. Attention-getting demonstrations provide opportunities to illustrate scientific concepts.

# **Standards**

S8P1 Students will examine the scientific view of the nature of matter.

S8P1(a) Distinguish between atoms and molecules.

S8P1(b) Describe the difference between pure substances (elements and compounds) and mixtures.

S8P1(c) Describe the movement of particles in solids, liquids, gases and plasma states.

S8P1(d) Distinguish between physical and chemical properties of matter as physical

(i.e., density, melting point, boiling point) or chemical (i.e., reactivity, combustibility).

S8P1(e) Distinguish between changes in matter as physical (i.e., physical change) or chemical (i.e., development of a gas, formation of precipitate, and change in color).

S8P1(f) Recognize that there are more than 100 elements and some have similar properties as shown on the Periodic Table of Elements.

S8P1(g) Identify and demonstrate the Law of Conservation of Matter.

#### Vocabulary

physical property physical change chemical property chemical change phases of matter temperature

### **Pre-Visit Activities**

**Pre-Visit Activites** 

Discuss the vocabulary.

# **Post-Visit Activity**

4826 Activity: This activity addresses GPS [enter CS Standard and Element Codes]