Physicist:

Element assigned:

Due Date: \_

**<u>Goal</u>:** To create an informational pamphlet about an element and a three-dimensional model of an atom.



tom Model

The pamphlet should be designed to **promote** the element by including the information listed below.

### I. Description and physical properties:

and Pamphlet Project

- A. Atomic Number
- B. Atomic Mass (amu)
- C. Density (g/cm<sup>3</sup>)
- D. Melting point (°C)
- E. Boiling point (°C)
- F. What it looks like (Is it a solid, liquid or gas? Color?)

### II. History

- A. Origin of name (language it came from and meaning)
- B. Who discovered it
- C. When was it discovered
- D. Where was it discovered

### III. Uses

- A. List some uses for element
- B. Where is it found on earth
- C. Is the element found in living things
- D. Two interesting facts about the element

# IV. Atomic Structure

- A. Bohr representation of the atom label all parts (proton, neutron and electron)
- B. Actual picture of the element

# V. Periodic Square (information from the periodic table)

- A. Atomic Number
- B. Element Symbol
- C. Element Name
- D. Atomic Mass



#### Additional Required Items:

- \* Cite sources (3 required, at least one printed material)
  - Design a cover (use color, drawn or printed)



E. Include a picture of one of it's uses



Extra Credit given for creativity

You will construct a model of an atom of the same element that you have researched.

### **Requirements (Use the following as a checklist)**

#### I. Model must have a nucleus of protons and neutrons

- a. Protons and neutrons must be distinct separate particles.
  - b. Nucleus size should be as small as possible
  - c. Do <u>NOT</u> use a Styrofoam ball for a nucleus.
- **II.** Model must have proper number of electron energy levels and proper number of electrons within each energy level
- III. Model may not be constructed of any soft fruit or pulpy material that drips or rots
- IV. Must have string or cord above to hang it from ceiling
- V. Must have string or cord from which to hang a card with the following information:



Extra Credit given for creativity