



# Adopt-An-Element

Name \_\_\_\_\_

## Fact Sheet

Element \_\_\_\_\_

Symbol	Atomic Number	Atomic Mass
_____	_____	_____
# of Protons	# of Neutrons	# of Electrons
_____	_____	_____
Melting Point	Boiling Point	Normal Phase
_____ °C	_____ °C	_____

Cost = \_\_\_\_\_ for \_\_\_\_\_

Classification:    Nonmetal    Metal    Metalloid

My element belongs to the \_\_\_\_\_ family.

Origin of Name \_\_\_\_\_

Discovered by \_\_\_\_\_ in \_\_\_\_\_

Interesting Info:    May include important uses, interesting facts, common compounds, etc.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.



# Adopt-An-Element

## Requirements:

### 1) Complete an Adopt-An-Element information sheet. (60% of grade)

You may use a variety of reference sources. Possible ideas are encyclopedias (book or CD-ROM), science encyclopedias, science catalogs, magazines, and/or Internet sites\*. Information sheets must be neat, written in black ink, and contain all the information requested. You also need to provide a list of your sources on the back of your information sheet. A minimum of three sources are required.

### 2) Create an advertisement for your element. (40% of grade)

The advertisement must include the element's name, symbol, atomic number, atomic mass, cost, and an advertising slogan that describes one or more of its important uses. Advertisements must be neat, colorful, and contain all the information listed above. You may add pictures that relate to your advertisement theme.

## Example:

Be sure to include:

- ✓ Element's symbol
- ✓ Element's name
- ✓ Atomic number
- ✓ Atomic mass
- ✓ Ad slogan
- ✓ Cost
- ✓ Your name

You may add pictures or drawings that illustrate the various uses for your element.

**Your ad must follow the same format as this example!**

33	74.9	Atomic Mass
<b>As</b>		Atomic Number
Arsenic		Symbol & Name
Arsenic's a sure fire way to deal with a nasty rat, it works better than a mean old cat!		Slogan
Cost = \$3.20 for 1 gram		Cost
John Smith		Name

A list of periodic table sites is available on

**The Science Spot**

<http://sciencespot.net/>

Go to **Kid Zone**, then choose **Chemistry Links**



# Adopt-An-Element

## Grade Sheet

Name \_\_\_\_\_

### Advertisement = 24 points (40%)

- **Provided basic information\*** ..... + 12 \_\_\_\_\_
  - Atomic #                       Symbol                       Cost
  - Atomic mass                       Name                       Student's Name
- **Slogan and pictures relevant** ..... + 10 \_\_\_\_\_
- **Followed directions** ..... + 2 \_\_\_\_\_  
 Neat, correct spelling/format, original

### Information Sheet = 36 points (60%)

- **Provided basic information** ..... + 10 \_\_\_\_\_
  - Name                       Symbol                       Atomic #                       Atomic Mass
  - Protons                       Neutrons                       Electrons                       Melting Point
  - Boiling Point                       Normal Phase
- **Other information** ..... + 11 \_\_\_\_\_
  - Cost
  - Nonmetal/Metal/Metalloid
  - Family
  - Origin of Name
  - Discovery & Date
  - Interesting Information/Uses
- **References** ..... + 9 \_\_\_\_\_  
 Minimum of 3; provided required information; correct format
- **Miscellaneous** ..... + 6 \_\_\_\_\_  
 Black ink, complete sentences, correct spelling, neat

**Total Points = \_\_\_\_\_ out of 60 = \_\_\_\_\_ %**

**A B C D F**



## Adopt-An-Element Project List

## Teacher Information

Visit the Chemicool site for details on cost information.

\*Cost listed on Los Alamos

\*\*No cost available

H		Ga		Re	
He		Ge		Os	
Li		As		Ir	
Be		Se		Pt	
B		Br		Au	
C		Kr		Hg	
N		Rb		Tl	
O		Sr		Pb	
F		Y		Bi	
Ne		Zr		Rn*	
Na		Nb		Ce	
Mg		Mo		Pr	
Al		Tc*		Nd	
Si		Ru		Pm*	
P		Rh		Sm	
S		Pd		Eu	
Cl		Ag		Gd	
Ar		Cd		Tb	
K		In		Dy	
Ca		Sn		Ho	
Sc		Sb		Er	
Ti		Te		Tm	
V		I		Yb	
Cr		Xe		Lu	
Mn		Cs		Th*	
Fe		Ba		Cm*	
Co		La		Cf*	
Ni		Hf		U**	
Cu		Ta		Ra**	
Zn		W		Es**	