

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!

The example advertisement is enclosed in a rectangular box. At the top left is the atomic number '33' and at the top right is the atomic mass '74.9'. In the center, the symbol 'As' is written in a large, bold font, with the name 'Arsenic' written below it in a slightly smaller font. Below the name is a slogan: 'Arsenic's a sure fire way to deal with a nasty rat, It works better than a mean old cat!'. At the bottom left, the cost is listed as 'Cost = \$3.20 for 1 gram'. At the bottom right, the name 'John Smith' is written. Arrows from labels on the right point to each of these elements: 'Atomic Mass' points to 74.9, 'Atomic Number' points to 33, 'Symbol & Name' points to 'As' and 'Arsenic', 'Slogan' points to the rat and cat text, 'Cost' points to the price, and 'Name' points to 'John Smith'.

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

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.

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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**	