

Adopt An Element

Option A Individual

Requirements:

1) Complete an "Adopt An Element information sheet". (50% of grade)

You may use a variety of sources or references. Possible ideas are encyclopedias (book or CD), science encyclopedias, science catalogs, magazines, and/or internet sites. Be careful with internet sites and the reliability of the information. Information sheets must be neat, written in black ink or typed, and contain all the information requested. You also need to provide a list of your sources/references on the back of your information sheet. A minimum of three sources/references are required.

2) Create a 3-D model of your element. (50% of grade)

The advertisement must include the element's name, symbol, atomic number, average atomic mass, cost, your name, 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 (see grading sheet). You may add pictures that relate to your advertisement theme. You may also choose to produce a digital copy of your advertisement by using Microsoft Word, PowerPoint, or any other compatible program. Your advertisement must follow a very similar format to the example below.

EXAMPLE

The example advertisement is enclosed in a rectangular box. It contains the following text and labels:

- Atomic Number: 33 (labeled with an arrow from "Atomic Number")
- Atomic Mass: 74.9 (labeled with an arrow from "Atomic Mass")
- Symbol and Name: AS and Arsenic (labeled with an arrow from "Symbol and Name")
- Slogan: Arsenic's a sure fire way to deal with a nasty rat and works better than a mean, old, stinky cat! (labeled with an arrow from "Slogan")
- Cost: Cost = \$3.20 for 1 gram (labeled with an arrow from "Cost")
- Your Name: John Smith (labeled with an arrow from "Your Name")

You add pictures or drawings that illustrate various things about your element*

Adopt An Element Fact Sheet

Name _____

Element _____

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

Classification: Nonmetal Metal Metalloid

Origin of Element's Name: _____

Discovered By and Date: _____

Interesting Information (may include important uses, interesting facts, common compounds, etc)

1. _____

2. _____

3. _____

4. _____

5. _____

References List the websites you used.

1. _____
2. _____
3. _____

Adopt An Element Grade Sheet

Name _____

Model = 50 points (50%)

- **Model Assembly** + 30 _____
Neat, model is assembled correctly, will hold together by itself
- **Overall performance in lab, good behavior, respectful of materials, cleaned up table at the end of the hour, stayed on task** + 20 _____

Information Sheet = 40 points (40%)

- **Provided Basic Information** + 26 _____
 - Name
 - Protons
 - Boiling Point
 - Symbol
 - Neutrons
 - Normal Phase
 - Atomic Number
 - Electrons
 - Atomic Mass
 - Melting Point
 - Nonmetal/ Metal/ Metalloid
 - Origin of Name
 - Discovery and Date
- **Fun Facts and other information** +5 _____
 - Information 1
 - Information 2
 - Information 3
 - Information 4
 - Information 5
- **References** + 9 _____
 - Minimum of three references provided in format required by teacher

Presentation = 10points (10%)

- **Class Presentation is well rehearsed and practiced**+10 _____

Total Points = _____ out of 100 points = _____ %

A B C D F

Adopt An Element

Option B Group of 2

Requirements:

3) Complete 2 “Adopt An Element information sheets” for 2 elements in the same family. (50% of grade)

You may use a variety of sources or references. Possible ideas are encyclopedias (book or CD), science encyclopedias, science catalogs, magazines, and/or internet sites. Be careful with internet sites and the reliability of the information. Information sheets must be neat, written in black ink or typed, and contain all the information requested. You also need to provide a list of your sources/references on the back of your information sheet. A minimum of three sources/references are required.

4) Create a Commercial or Short Infomercial for your element. (50% of grade)

The commercial must include the elements' names, symbols, atomic numbers, average atomic masses, costs, and an advertising slogan that describes one or more of their important uses. Each commercial/infomercial must be neat, colorful, contain all the information listed above, and have all members of the group acting in the video (see grading sheet). You may add pictures, props, costumes, etc that relate to your advertisement theme and are school appropriate. Commercials or infomercials must be turned in as a digital copy on flash drive, CD, DVD, etc. An example commercial or information can be provided by the teacher upon request.

Adopt An Element Grade Sheet

Name _____

Option B

Commercial or Infomercial = 36 points (50%)

- **Provided Basic Information** + 15 _____
 - Atomic Number
 - Atomic Mass
 - Symbol
 - Name
 - Cost
 - Student's Name
- **Slogan, costumes, pictures, props are Relevant** + 10 _____
- **Creative use of multimedia** + 10 _____
- **Followed Directions** + 10 _____
Neat, appears to have been completed with care, correct format, original, etc
- **Peer Review and Self Evaluation** + 5 _____

Information Sheet = 36 points (50%)

- **Provided Basic Information** + 20 _____
 - Name
 - Protons
 - Boiling Point
 - Symbol
 - Neutrons
 - Normal Phase
 - Atomic Number
 - Electrons
 - Atomic Mass
 - Melting Point
- **Other Information** + 11 _____
 - Cost
 - Nonmetal/Metal/Metalloid
 - Family
 - Origin of Name
 - Discovery and Date
 - Information 1
 - Information 2
 - Information 3
 - Information 4
 - Information 5
 - Information 6
- **References** + 9 _____
 - Minimum of three references provided in format required by teacher
- **Miscellaneous** + 10 _____
 - Black ink, complete sentences, correct spelling, neat, colorful, etc

Total Points = _____ out of 100 points = _____ %

A B C D F

**Adopt an Element
Oral Presentation
50 points**

Using the advertisement or commercial, you will present your element to a group of your peers and teachers. You will give a three minute presentation, followed by a “Question and Answer” session.

Oral Communication			
Expert 4	Competent 3	Adv. Beginner 2	Beginner 1
<p>A. Complex sentences are produced with creative and accurate word choices that support the content.</p> <p>B. Presenter thoroughly understands the content and can answer questions about it.</p> <p>C. Presenter's Eye contact, volume and enunciation are sufficient so that all of the audience is engaged, can hear and understand.</p> <p>D. Exceeded 3 minute mark</p>	<p>A. Complex sentences are produced that support the content.</p> <p>B. Presenter understands the content and can answer most questions.</p> <p>C. Presenter's Eye contact, volume and enunciation are sufficient so that most of the audience is engaged, can hear and understand.</p> <p>D. 2:30 to 3 minutes</p>	<p>A. Sentences or phrases are produced that support the content most of the time.</p> <p>B. Presenter understands the content and can answer some questions.</p> <p>C. Presenter's Eye contact volume and enunciation are inconsistent which makes it difficult for some of the audience to be engaged, hear and understand.</p> <p>D. 2 to 2:30 minutes</p>	<p>A. Phrases or simple sentences are produced to communicate intent.</p> <p>B. Presenter has a basic understanding of the content, but cannot answer questions.</p> <p>C. Presenter's Eye contact volume and enunciation make it difficult for the audience to be engaged, hear and understand.</p> <p>D. Less than 2 minutes</p>