

NAME
DATE
PERIOD

Elements of Life Wanted Posters

Introduction

As you have learned, the building blocks of matter are atoms and elements are pure substances made of only one kind of atom. You will conduct research on one of the elements found in living things and create a Wanted Poster to teach your class about that element.

Materials:

Poster paper
Computers
Textbook
Markers
Pencils
Scissors

Directions:

1. Follow your teacher's instructions about working alone or as a group.
2. Use your textbook and the online Periodic Table resources to find out about your element.
3. Follow the template provided in designing your final wanted poster.
4. Be prepared to present your poster to the class.

Useful websites:

Interactive Periodic Tables –

<http://periodictable.com/> (include pictures of the elements)

<http://www.teachersdomain.org/resource/phv03.sci.phys.matter.ptable/>

<http://www.webelements.com/>

http://www.chem4kids.com/files/elem_intro.html

Required Information:

1. Element name and symbol
2. Atomic number
3. Atomic mass
4. Numbers of each atomic particle: proton, neutron and electron
5. Properties of the element
6. How the element is found and used in nature
7. Pictures of the element in its pure state and where it can be found in nature
8. A drawing of the atomic model of the element

WANTED

Name: Element name here

Also known as : Element symbol here

Picture of the element, where it is commonly found and Bohr Diagram here

Vital Statistics

Atomic number:

Atomic Mass:

Protons:

Neutrons:

Electrons:

Properties:

WANTED FOR: Describe uses here

Elements of Life Wanted Poster Scavenger Hunt

Fill in this table as you visit each of the Wanted Posters.

Symbol	Name	Atomic Number	Atomic Mass	Protons	Neutrons	Electrons	Classification	Uses
H								
	Carbon							
N								
	Oxygen							
P								
	Sulfur							
K								
	Calcium							

Conclusion and Analysis:

After collecting data on each of these elements, use your notes and the textbook to answer the questions below.

1. What is the definition of an atom?
2. What is the definition of an element?
3. How are atoms and elements related?
4. As the Atomic Numbers increase, what do you notice about the numbers of Protons, Neutrons and Electrons?
5. How do you explain this observation?
6. As the numbers of Protons, Neutrons and Electrons increase, what do you notice about the Atomic Mass?
7. How do you explain this observation?

8. Which particles in an atom are in the nucleus?

9. Where are the electrons in an atom?

10. Are there any similarities among the elements studied? Explain.

11. Can the position of the elements on the Periodic Table explain the similarities and differences you observed in the elements? If so, please explain.