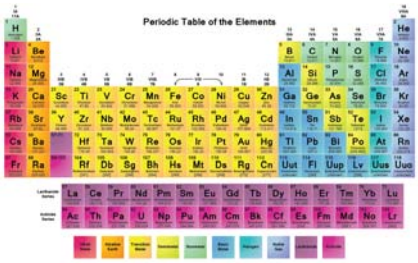
Element of the Week



Instructions:

1. Fill in the atomic number, atomic mass and the name of the element.
2. Determine the number of protons, neutrons, and electrons in an atom of the element
3. Identify if the element is a solid, liquid, or gas at room temperature (colour the circle)
4. Give the Melting Point and Boiling Point in degrees Celsius
5. Write how many valence electrons the element has
6. List some physical or chemical properties for the element
7. List some uses for the element
8. Draw a Bohr diagram to show the arrangement of electrons
9. Draw a Lewis Structure to show the number of valence electrons
10. Use the following colors to shade in the square for each element:
    - Hydrogen = Dark Green
    - Very Reactive Metals = Red
    - Quite Reactive Metals = Light Blue
    - Transition Metals = Purple
    - Poor Metals = Light Green
    - Metalloids = Raspberry
    - Non-metals = Yellow
    - Noble Gases = Orange
11. On the periodic table outline
    a. Write the symbol for the element in the correct block
    b. Fill in the atomic number, atomic mass and the name of the element.
    c. Colour the element's block using the same colour as in #10d
12. Go to http://www.ptable.com/ for research

Element of the Week

H

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

He

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Bohr Diagram

Properties:

Uses:

Lewis Structure

Element of the Week

Li

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Bohr Diagram

Properties:

Uses:

Lewis Structure

Element of the Week

B

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

C

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

N

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

O

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

F

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Ne

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Na

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Mg

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Al

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

S

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Cl

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Ca

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Fe

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Cu

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Zn

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Bohr Diagram

Properties:

Uses:

Lewis Structure

Element of the Week

Kr

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Bohr Diagram

Properties:

Uses:

Lewis Structure

Element of the Week

Ag

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Sn

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

I

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Pt

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Au

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Bohr Diagram

Properties:

Uses:

Lewis Structure

Element of the Week

Hg

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Bohr Diagram

Properties:

Uses:

Lewis Structure

Element of the Week

Pb

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Pu

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Si

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

P

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Ar

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

K

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

U

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Bohr Diagram

Properties:

Uses:

Lewis Structure

Element of the Week

Ti

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Bohr Diagram

Properties:

Uses:

Lewis Structure

Element of the Week

V

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Cr

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Co

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Ni

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

As

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Se

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Be

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

Ti

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Properties:

Bohr Diagram

Uses:

Lewis Structure

Element of the Week

W

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Bohr Diagram

Properties:

Uses:

Lewis Structure

Element of the Week

Protons = _____

Neutrons = _____

Electrons = _____

○ Solid

○ Liquid

○ Gas

Melting Point = _____

Boiling Point = _____

Valence electrons =

Bohr Diagram

Properties:

Uses:

Lewis Structure