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The Periodic Table Review Worksheet **WITH ANSWERS**

Name whether the elements below are metals or non-metals:

Na

Metal

F

Non-metal

Ni

Metal

Al

Metal

S

Non-metal

At

Non-Metal

U

Metal

Si

Non-metal

How many protons, neutrons, and electrons do these elements have according to the periodic table?

Ca

Prot: 20

Neut: 20

Elec: 20

Zn

Prot: 30

Neut: 35

Elec: 30

I

Prot: 53

Neut: 74

Elec: 53

Hg

Prot: 80

Neut: 121

Elec: 80

How many protons, neutrons, and electrons do these elements have given the information near them? The line under each problem is not meant to be there but I cannot display these correctly any other way. **Answers are displayed slightly below and to the right.**

¹⁴₆ C

Carbon has 6 protons, 8 neutrons, and 6 electrons

⁶⁰₃₂ Ge

Germanium has 32 protons, 28 neutrons, and 32 electrons

²³₁₂ Mg

Magnesium has 12 protons, 11 neutrons, and 12 electrons

³³₁₅ P

Phosphorus has 15 protons, 18 neutrons, and 15 electrons

Give at least one chemical symbol for each category:

Too many answers to display them all.

Transition metals:

Alkali metals:

Halogens:

Alkaline earth metals:

Noble gases:

Metalloids:

Give the elemental symbols of the third period.

Na, Mg, Al, Si, P, S, Cl, Ar

Give the elemental symbols of the second group.

Be, Mg, Ca, Sr, Ba, Ra

Write the ions for the elements below and tell how many electrons they have gained or lost.

Mg

S

Li

N

Mg^{2+}

S^{2-}

Li^+

N^{3-}

Lost 2 electrons

Gained 2 electrons

Lost 1 electron

Gained 3 electrons

Give the amount of electron shells for each element.

C

Ar

Ba

Fe

2

3

6

4

Write in the amount of valence electrons for each element.

F

Li

B

O

7

1

3

6

Which element below has the LOWEST electronegativity?

Cl, I, F, Br

I

Which element below has the HIGHEST electronegativity?

B, Li, O, C

O

Which element below has the LOWEST electronegativity?

Ca, Al, Cs, N

Cs

Which element below has the HIGHEST ionization energy?

Mg, Al, Na, S

S

Which element below has the LOWEST ionization energy?

Rb, Li, Cs, H

Cs

Which element below has the HIGHEST ionization energy?

Fe, O, Na, Be

O

Which element below has the SMALLEST Atomic Radius?

P, As, N, Sb

N

Which element below has the LARGEST Atomic Radius?

I, Rb, Sr, Te

Rb

Which element below has the SMALLEST Atomic Radius?

Rb, Mg, Cl, As

Cl

