

Name: _____

Date: _____ Hour: _____

Periodic Table Web Quest

Part 1

Go to <http://periodic.lanl.gov/use.shtml>

Read through the text and graphics and answer the following questions.

1. What is the atomic number?

2. What is the atomic symbol?

3. What is the atomic weight?

Part 2

Go to <http://ippex.pppl.gov/interactive/matter/elements.html> and answer the following questions as you watch the tutorial.

1. Atoms with a given number of _____ are called _____.
2. Scientists have discovered more than _____ different elements.
3. If we remove one proton from Lithium, it becomes _____.
4. If we change the number of neutrons found in an element, it is called an _____.
5. The _____ arranges elements according to the number of _____ and the properties of the elements.
6. Elements in each column are called _____. The elements in each group have similar_____.

Continue using the interactive to answer the following questions about molecules.

7. When elements combine, they form _____.
8. The lowest energy level can hold _____ electrons. The next level can hold _____ electrons and the third level can hold _____ electrons.

Now go to <http://education.jlab.org/elementmath/index.html> and play the Element Math Game. Your settings should be 10 questions, tested on protons, neutrons, and electrons, and do not round the mass.

My score on the Element Math Game was: _____%

PART 3: GROUPS (Families) of the Periodic Table

Go to <http://www.chemicalelements.com/index.html> and http://www.chem4kids.com/files/elem_alkalimetal.html to answer the following questions and to color the 8 groups on the attached periodic table.

1. GROUP 1 (IA).

- a. Elements in Group 1 are called the _____.
- b. These are very _____ metals that do/do not occur freely in nature.
- c. These metals have _____ electron in their outer shell.
- d. List 3 properties of these metals:
_____ + _____ + _____
- e. Pick a color and shade the appropriate area on your periodic table handout.

2. GROUP 2 (IIA)

- a. Elements in Group 2 are called the _____.