PERIODIC TABLE

Name

Date

12.0111

What Information is on the Periodic Table?

Each element has its own box on the *Periodic Table* with a lot of KEY information in it. There is a key to tell you what information in each box means. Although *Periodic Tables* differ, most have the same basic ^{Co} information. Starting from the top of the box, the information on the key to the right is as follows: [1] atomic mass - weighted average of the mass of the common isotopes of the element; [2] common oxidation states - tells number of electrons lost, gained or shared during bonding; [3] symbol - one, two, or

three letters related to the name with the first letter capitalized and other letters lower case. The three letter symbols are systematic names that represent the atomic numbers of unnamed elements (currently, elements beyond 109); [4] atomic number - number of protons; and [5] electron configuration - arrangement of electrons in energy levels.

- teris number Electron Configuration - 2-4								
Number	Prefix	Symbol	Number	Prefix	Symbol			
0	nil	n	5	pent	p			
1	un	u	6	hex	h			
2	bi	b	7	sept	s			
3	tri	t	8	oct	0			
4	quad	a	9	enn	e			

Atomic Mass 🗕

Symbol

Atomic Number

Common Oxidation

States

Answer the questions below by referring to the *Periodic Table of the Elements* and to the explanation of the key above.

1. How many protons do each of the following elements have	1.	How	many	protons	do e	each o	f the	follo	wing	elements	have
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	a. calcium	c. iodine	e. nitrogen	g. ununoctium			
	b. sodium	d. sulfur	f. mercury	h. silver			
2.	. What is the mass of the most common isotope of each of the following elements?						
	a. phosphorus	c. barium	e. lead	g. chlorine			
	b. potassium	d. oxygen	f. uranium	h. gold			
3.	. How many occupied principal energy levels do elements in period 4 have?						
4.	. How many valence electrons do the elements in group 17 have?						
5.	. What are the oxidation states for:						
	a. elements in group 1?		b. elements in group 2?				
6.	. Which groups have elements with more than one positive oxidation state?						
7.	. Which groups have elements with both positive and negative oxidation states?						

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