Name	
Parts of an Atom and The Periodic Table Ver A	
ements regarding Dalton's atomic theory true or false?	

- 1. Are the following statements regarding Dalton's atomic theory true or false?
- a. (True/False) All nitrogen atoms are identical.
- b. (True/False) Boron and oxygen atoms have the same mass.
- c. (True/False) Sodium and chlorine atoms combine in a 1:1 ratio to form sodium chloride (salt)
- 2. Are the following statements regarding electrons true or false?
- a. (True/False) Electrons have a charge of 1-.
- b. (True/False) If an atom has an equal number of protons and electrons, it will be neutral.
- c. (True/False) Electrons are found in the nucleus of the atom.
- 3. Are the following statement regarding protons true or false?
- a. (True/False) Protons have the same mass as electrons.
- b. (True/False) Protons are positively charged.
- c. (True/False) Protons are found in the nucleus of the atom.
- 4. What is the name and number of protons for each of the following atoms?

	Name	Number of protons
a. Na		
b. Li		
c. Cr		
d. Se		

5. For the following elements, give their name and their atomic number.

	Name	Atomic Number
a. F		
b. P		
c. K		
d. Co		

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6. What is the <b>symbol</b> for the fol	lowing elements?	
a. Magnesium	b. Phosphorus	-
c. Iron	d. Copper	

a. lithium		b. Ca _	· · · · · · · · · · · · · · · · · · ·		
c. chlorine					
8. Classify each of	the following	as a metal, nor	nmetal, or metal	loid.	
a. sodium		b. silic	con		
c. nitrogen		d. copp	per		
9a. Circle the meta	ls in the follo	wing group.			
C Ca	Br	Co Ni	Ar Li	Al	O
b. Write the sym	<b>bol</b> and the <b>n</b> :	ame of the elen	ment in the abov	e group	that is in the alkali family.
XXX **					
c. Write the <b>sym</b> metal family.	bol and the na	ame of the elen	nent in the abov	e group	that is in the alkaline earth
metal family.					that is in the alkaline earth
d. Write the s	ymbol and th	e <b>name</b> of the o	element in the a	bove gro	oup that is in the halogen
d. Write the stamily.  10. Which elements a. Potassium b. silver c. bromine	ymbol and th	e <b>name</b> of the o	element in the a	bove gro	oup that is in the halogen
d. Write the stamily.  10. Which elementa. Potassium b. silver c. bromine d. magnesium	ymbol and th	e name of the o	element in the a	bove gro	oup that is in the halogen Why?
d. Write the stamily.  10. Which elements a. Potassium b. silver c. bromine d. magnesium  Reason for answer	ymbol and the	e name of the o	element in the a	bove gro	oup that is in the halogen Why?
d. Write the stamily.  10. Which elements a. Potassium b. silver c. bromine d. magnesium  Reason for answer	ymbol and the	e name of the expect to be mo	element in the a	bove gro	oup that is in the halogen Why?
d. Write the standily.  10. Which elements. Potassium b. silver c. bromine d. magnesium  Reason for answer  11. Determine the	ymbol and the	e name of the expect to be mo	element in the a	bove gro	oup that is in the halogen Why?
d. Write the standily.  10. Which elements a. Potassium b. silver c. bromine d. magnesium  Reason for answer 11. Determine the	ymbol and the	e name of the expect to be mo	element in the a	bove gro	oup that is in the halogen Why?

12. Write the symbols for each (for example Na-23)	other the follow	ing in the form symbol-mass number
a. A bromine isotope with 43 ne	eutrons.	
b. A phosphorus isotope with 16	neutrons.	
c. A chromium isotope with 27 i	neutrons.	
d. A neon isotope with 12 neutro	ons.	
13. Consider:		
24 25 12 Mg 12 Mg		
These 2 atoms are called the		of Magnesium.
14. Determine the number of pro	otons and electro <b>Protons</b>	ns and each of the following ions.  Electrons
a. Al <sup>3+</sup>		
b. S <sup>2-</sup>		
c. I		
$d.$ $Ag^+$		

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15. Complete the follow	wing table

Element / Ion	Atomic Number (Z)	Mass Number (A)	Charge	Number of Protons	Number of Neutrons	Number of electrons
<sup>24</sup> Mg						
		39	0		20	
	11	23				10
	9		1-		10	
<sup>27</sup> Al <sup>+3</sup>						
				82	125	80
		24	2+	12		