Buggé: Atoms and	Elements Webquest				
NAME:			DATE:		
	1	Atoms and Ele	ments Webqu	est	
Read and explo	re the following si	ites to understand	more about what	makes up our world.	
http://education 1. What are ator	<u>.jlab.org/atomtour</u> ms?	r/index.html			
2 Fill in 41 - C-1	1	: <b>C</b>	- 41 4 6		
Name of	Charge	Location on the	Size	Cool Facts	
Particle					
http://education	.jlab.org/qa/eleme	ent.html	l		
3. What is an el	ement?				
4. How are thes	e elements arrang	ed?			

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## http://education.jlab.org/itselemental/index.html

Below the periodic table in the third paragraph, click on 'how to calculate the number of protons, neutrons, and electrons in an atom of an element.'

5. What four things are shown on a sample element.	periodic table square for an indivi	dual element? Draw and label a
Define:		
a) Atomic Number:		
b) Atomic Weight/Atomic Mass Nu	umber:	
6. How are electrons arranged arou	nd an atom?	
7. From a periodic table square, a) How do we determine the number	er of Protons an element has?	
b) How do we determine the number	er of Electrons an element has?	
c) How do we determine the number	er of Neutrons an element has?	

8. Fill in a square for the element Oxygen	9. Use the information on the website and in your		
	textbok to draw a model of an atom of Oxygen		
http://education.jlab.org/elementmath/			
10. Let's play a game! Go to the Element Math			
	as, neutrons, and electrons (uncheck nucleons) and the		
elements atomic weight should NO1 be rounde	d for you. Then click on 'I'm ready! Let's start!'		
How did you do?/ 10			
110w did you do!/ 10			
11 Use the ilah website and the search engine of	of your choice (or your textbook) to define the following		
terms as they relate to chemistry:	22 your encies (or your tentedon) to define the following		
a) Isotope			
, 1			
b) Compound			
) M 1 1			
c) Molecule			
d) Chemical Bonds			
a) Chemical Bolids			
e) Ionic Bond			
f) Covalent Bond			
f) Covalent Bond			
f) Covalent Bond			
f) Covalent Bond g) Ion			