Exploring Atoms

N.L		
Name		

Watch the "Atoms" movie at http://www.brainpop.com/ to complete this section.

1. List three items that are made of	atoms		
2. The every element in the universe.	of	shows and predicts	Word Bank for #2-10
,			Atomic Mass
3 argued that	t everything	in the world was made up of	Atomic Number
particles so small they could not		·	Atoms
from the Greek word "a	atomos", whic	h means	Attracts
4 John gold the	t atama wara i	the emallest part of an element	Dalton
4. John said that that retains its chemical properties.	l aloms were	the smallest part of an element	Democritus
that retains its chemical properties.			Electrons
5. Atoms are made up of three sub	atomic particl	es called,	Elements
, and	•		Five
			Indivisible
6. The atom's center or			Light
Protons have a e			Molecules
electrical charge. They are held tog			Neutrons
positively charged protons from		each other.	No Nucleus
7. The nucleus is surrounded by a	cloud of electi	rons moving near the speed of	One
The electrons have		•	Periodic Table
them to the protons and they live			Positive
energy levels.			Protons
6,			Repelling
8. On the periodic table, atoms are	arranged by	,	Shells
which is really the number of proton			Strong
and the element's	on	the periodic table.	Symbol
9. Different types of atoms can be	and tagathar	to make	Two
Water is created by atoms of	_		
water is created by atoms or	nyarogen an	a atom or oxygen.	
10. If the nucleus of an atom was	the size of a	n apple, the electrons would be	footbal
fields away.			
Try the quiz to complete each statem	ient.		
11. The is the smallest		an element	~ ~
			(X)
12. Scientists have discovered or cr			$(X \bullet X)$
13. A is two or	r more atoms	bonded together.	TXT
1/1 What is the most abundant atom	n in the unive	rsa?	

Use the information from the movie to complete the puzzle and discover the last name of the mystery person.

1				 		
2		 	 			
3				 	 	
4		 	 	 		
5			 	 	 	
6			 	 	 	
7			 	 	 	
8			 	 		
9	 	 	 			

- 1. The atomic ? equals the number of protons and neutrons in the nucleus of an atom.
- 2. The atomic ? equals the number of protons or electrons in an atom.
- 3. The ? is the center of an atom and contains protons and neutrons.
- 4. Two or more atoms ? together form a molecule.
- 5. An electron has a ? charge.
- 6. A ? of water consists of two atoms of hydrogen and one atom of oxygen.
- 7. A ? is found in the nucleus and has no electrical charge.
- 8. Electrons can be found in energy levels, or <u>?</u>, that surround the nucleus of an atom.
- 9. A proton has a ? charge and is found in the nucleus of an atom.

Extra Credit:						
The name of the mystery person is						
Why is he important in the field of chemistry?						

Done? Try the games listed on the Chemistry page of the Kid Zone at http://sciencespot.net/.