Name:	
Date:	
Period:	

Atomic Structure

Engage

How would you define an atom using 8 words or less?

Class definition of an ATOM:

How does the smallest piece of the material you were given relate to the definition of what an atom is?

Explore: My 1st drawings of atoms with labels:

This is an atom of the element	This is an atom of the element

My 2nd revised drawing of atoms with labels:

This is an atom of the element	This is an atom of the element

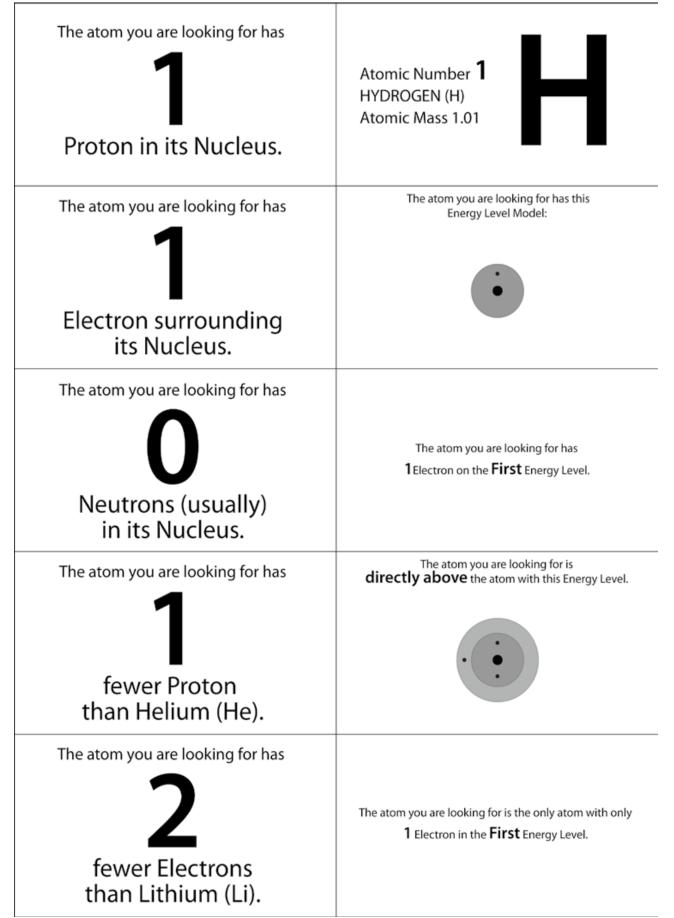
Compare and contrast the atoms of you two elements. How are they the same and how are they different?

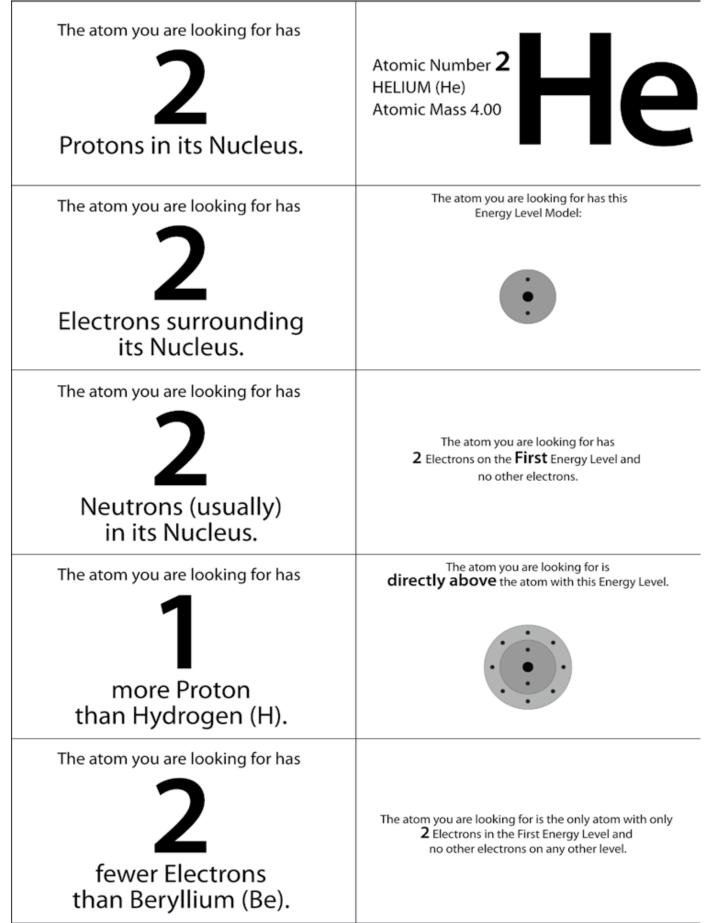
Lesson 2

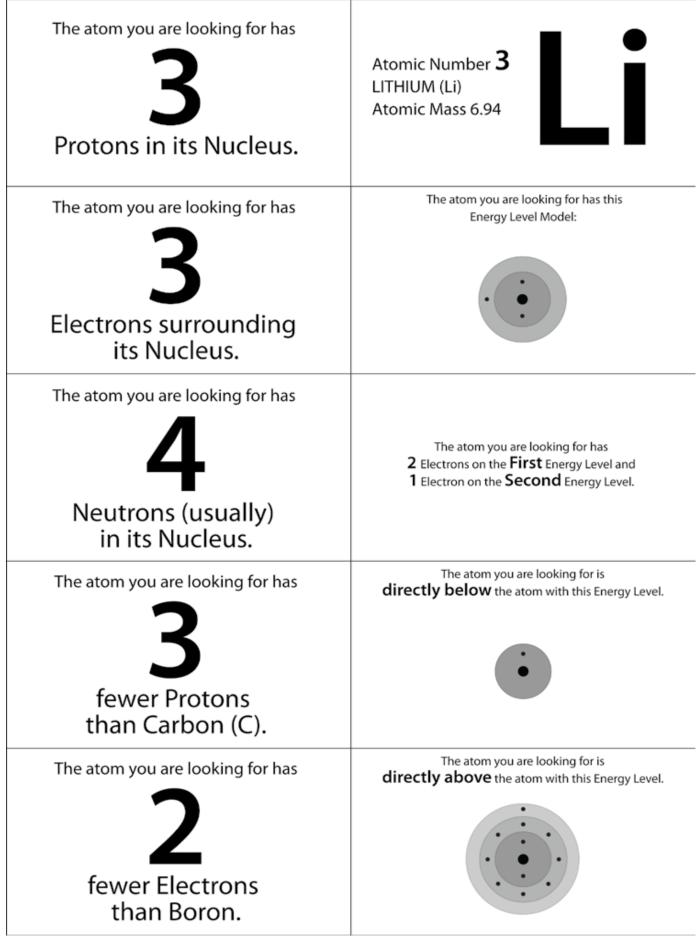
<u>Table: Sub-Atomic Particles</u> <u>Protons, Electrons, & Neutrons</u>

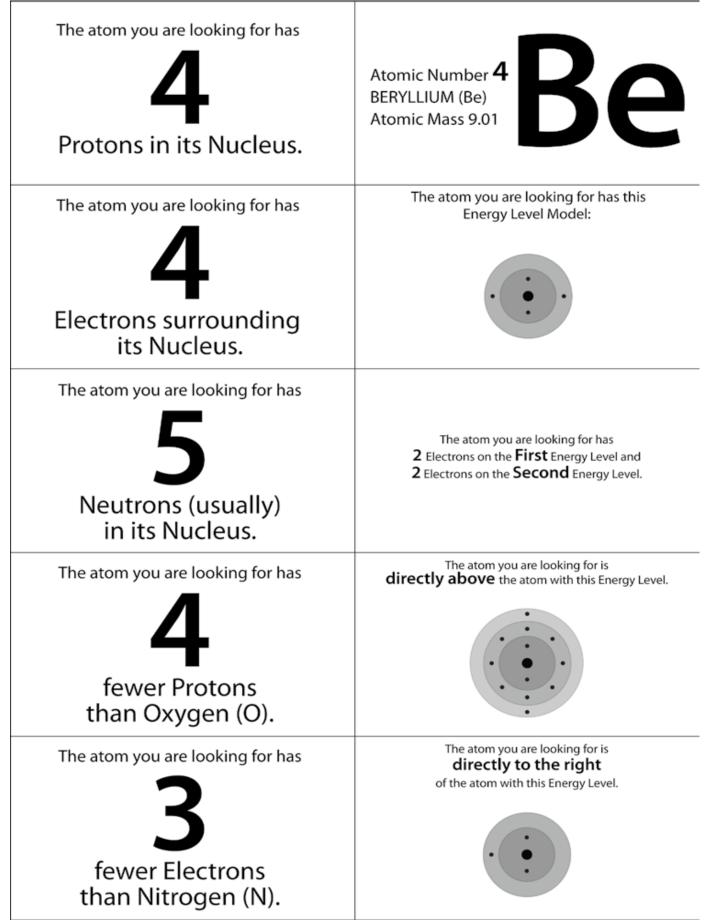
Name of sub- atomic particle in an atom	How many are there?	Where are they located in an atom? (Location)	Charge	Size (compared to other particles)
PROTON				
ELECTRON				
NEUTRON				

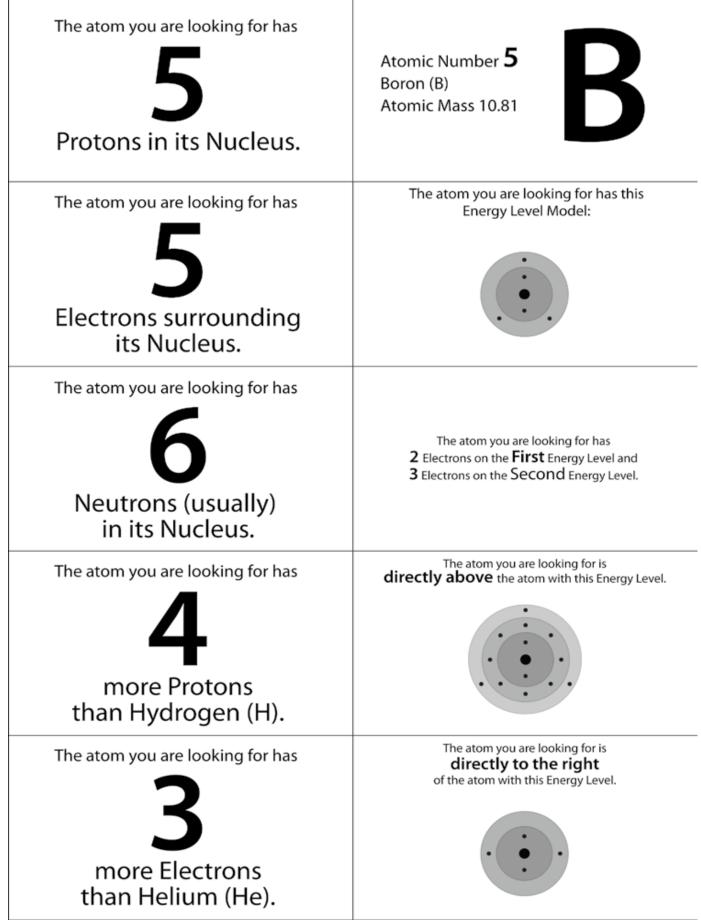
Draw and label the hydrogen atom	Draw and label the Lithium atom:	Draw and label the Helium atom:

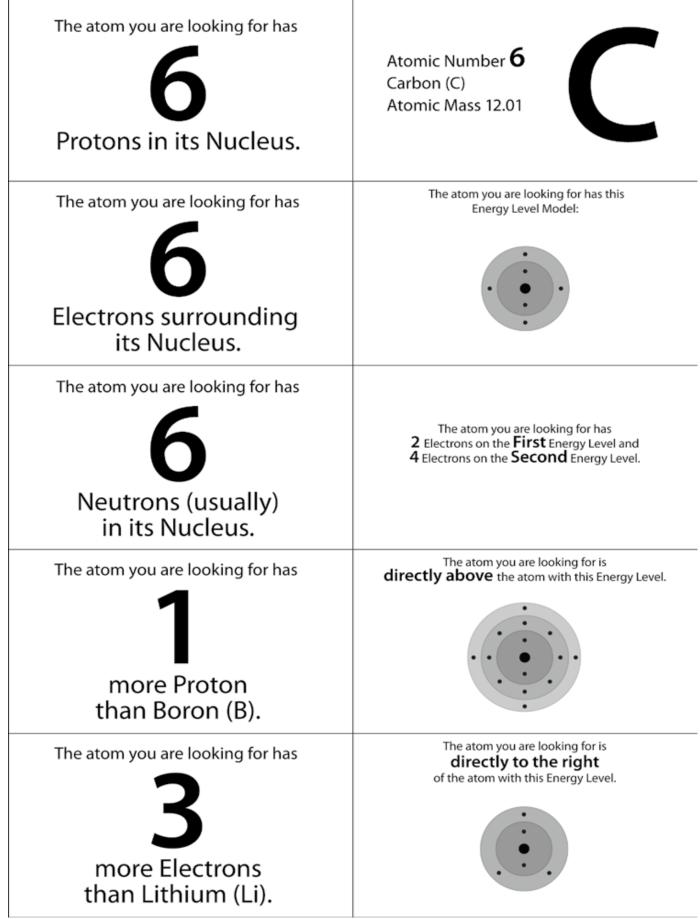


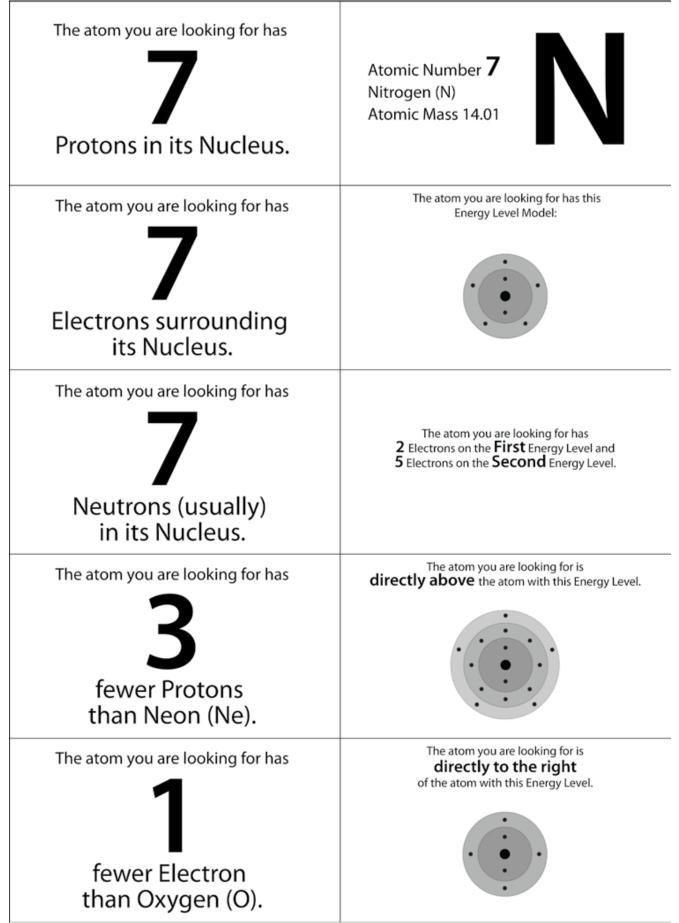


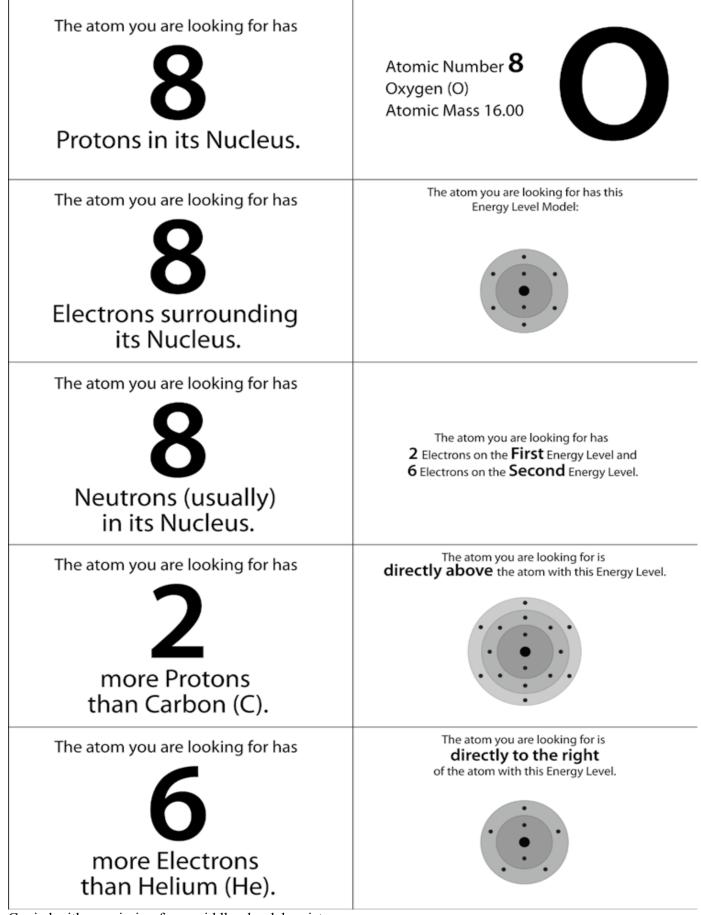


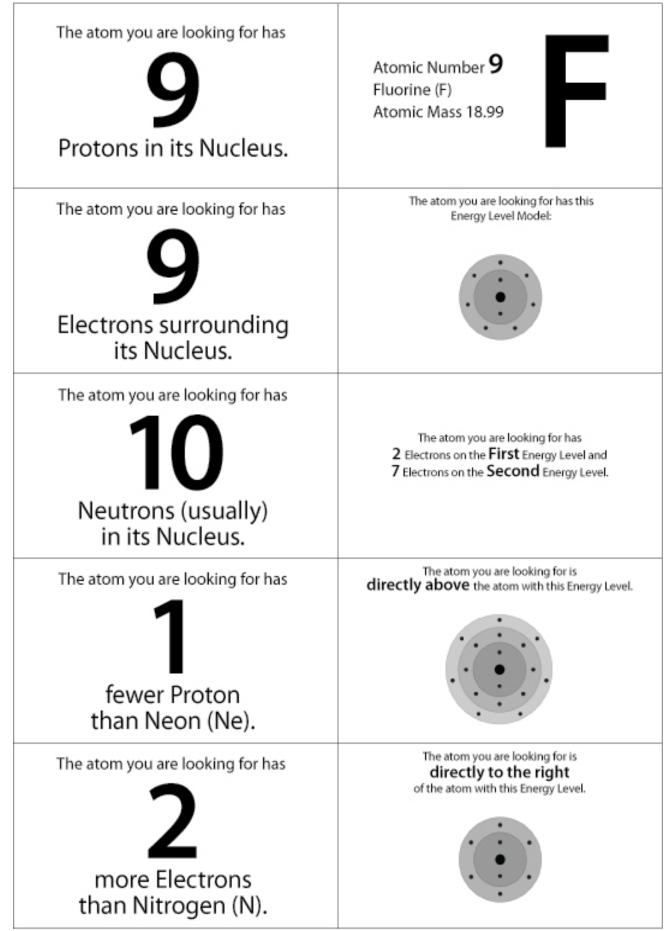


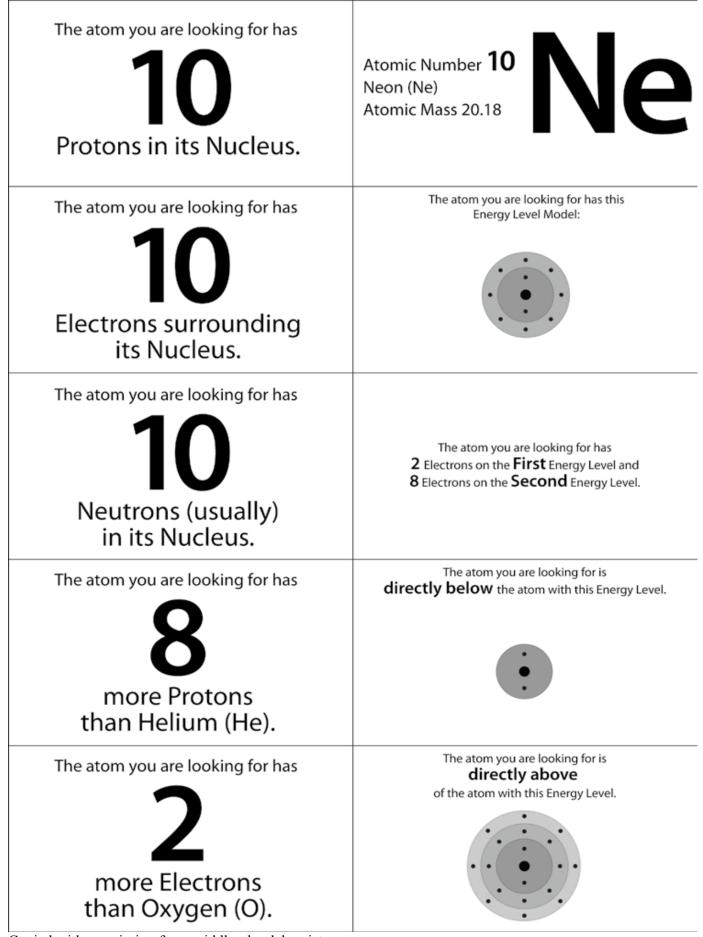


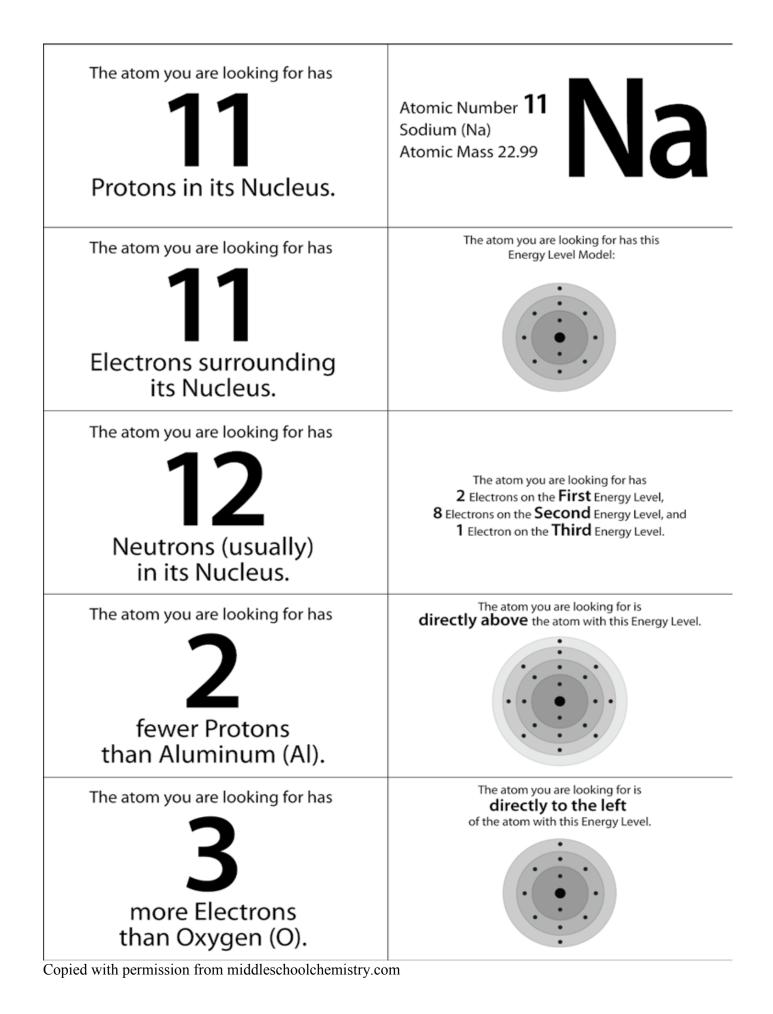


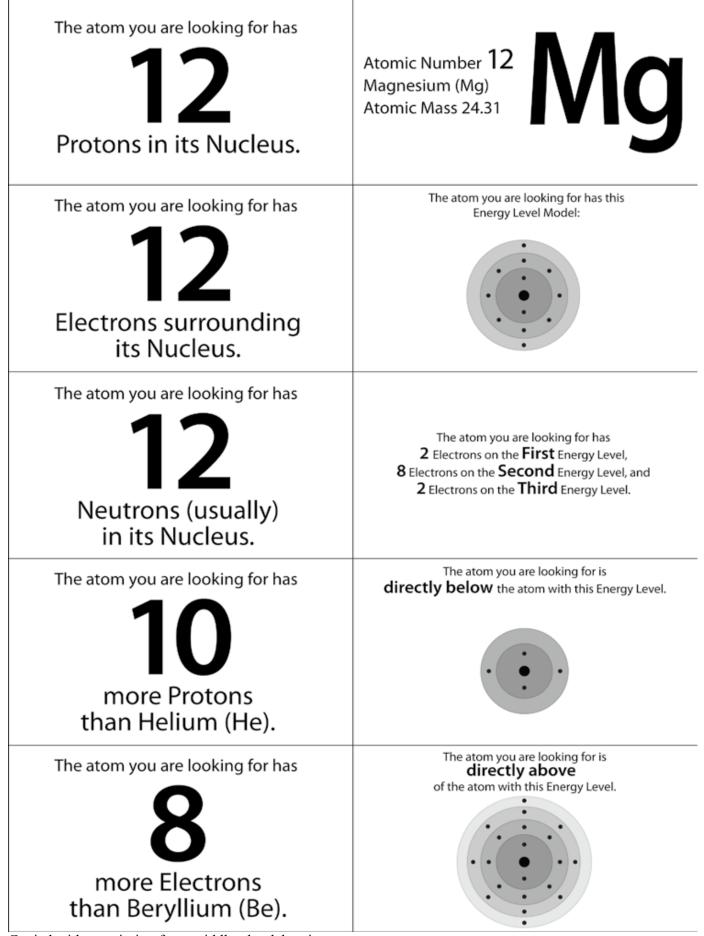


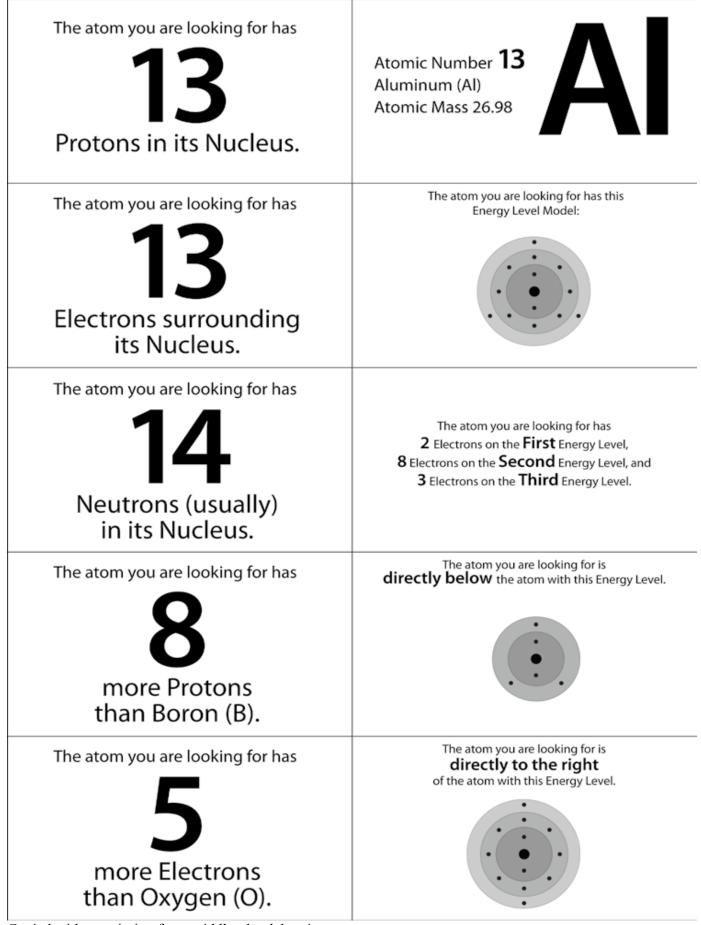


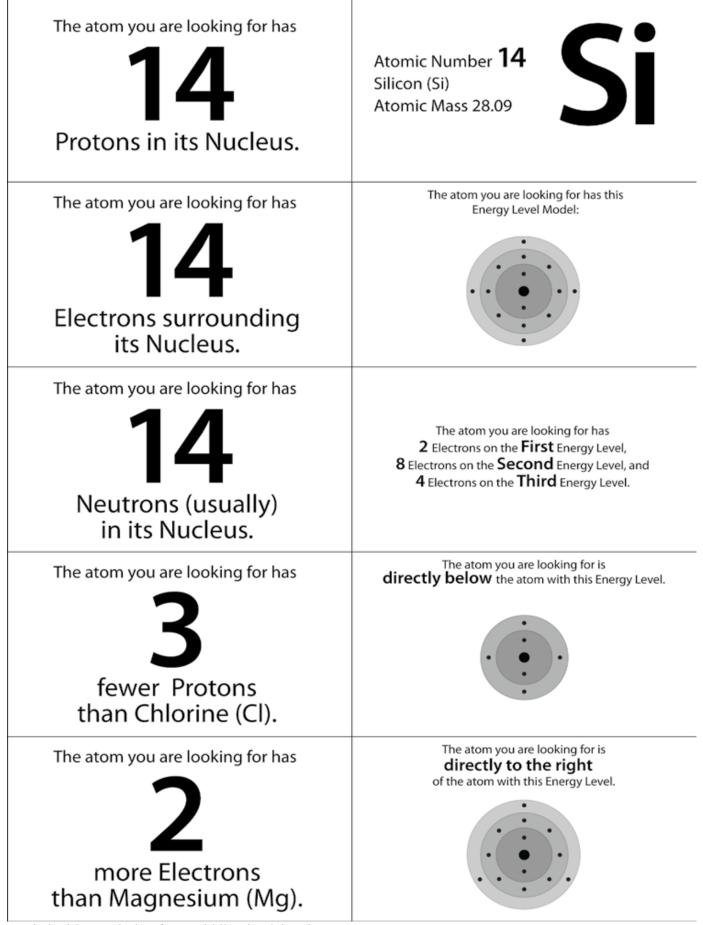


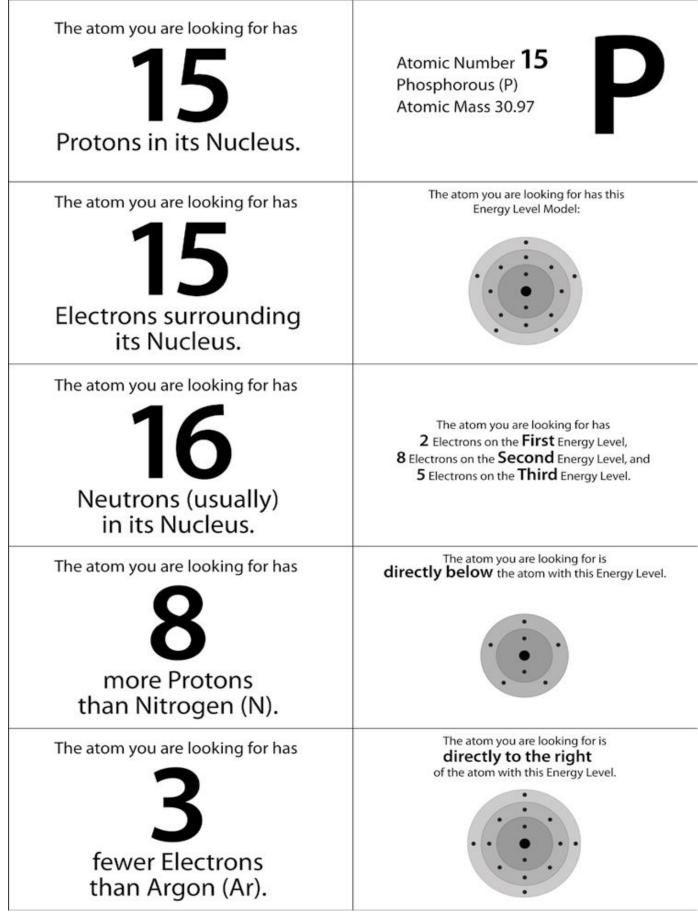


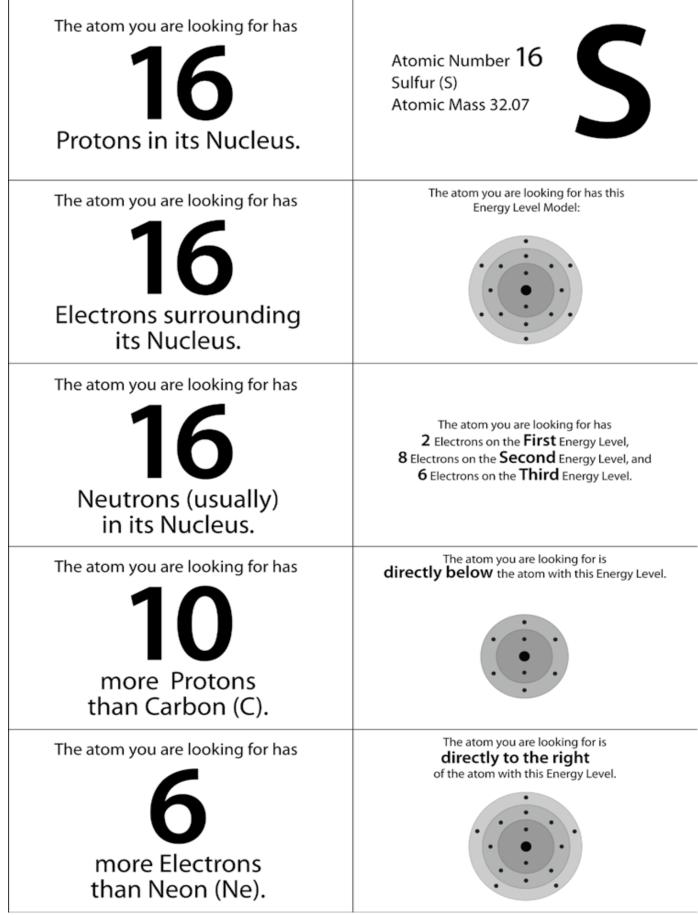


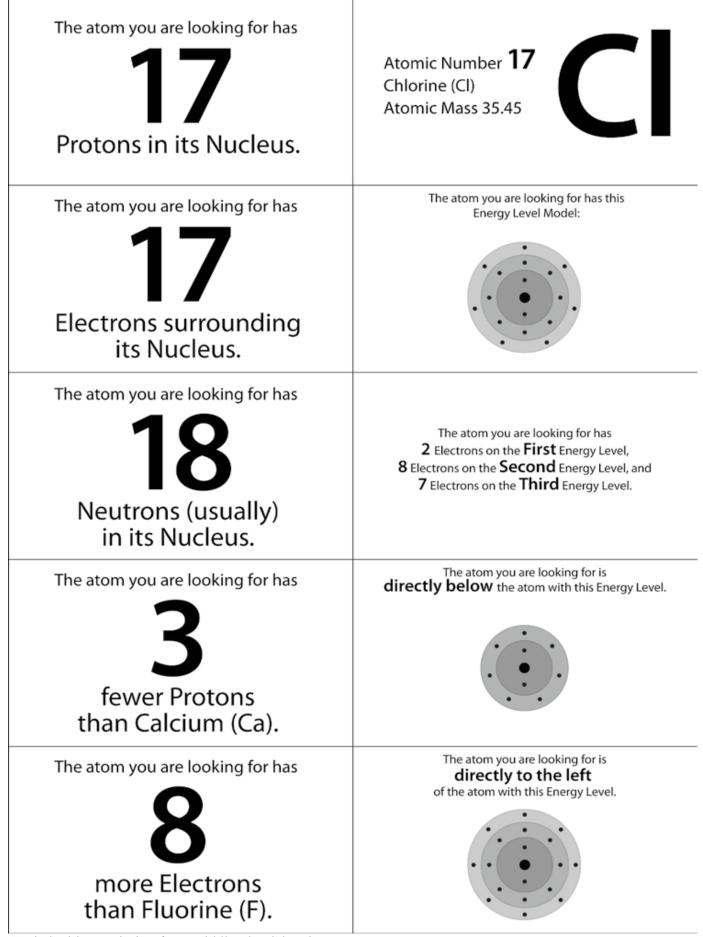


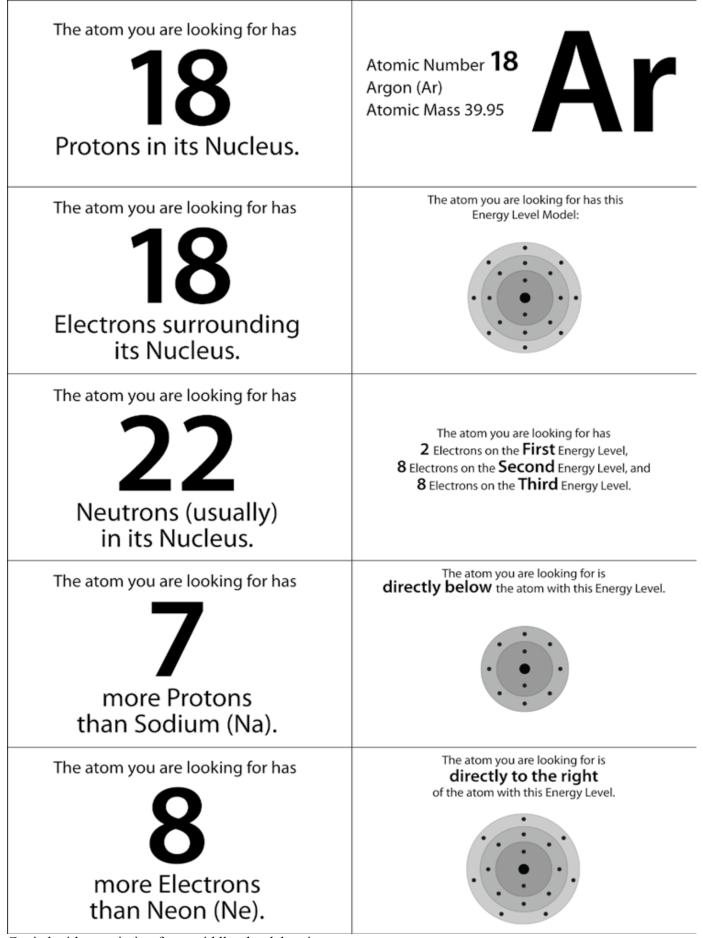


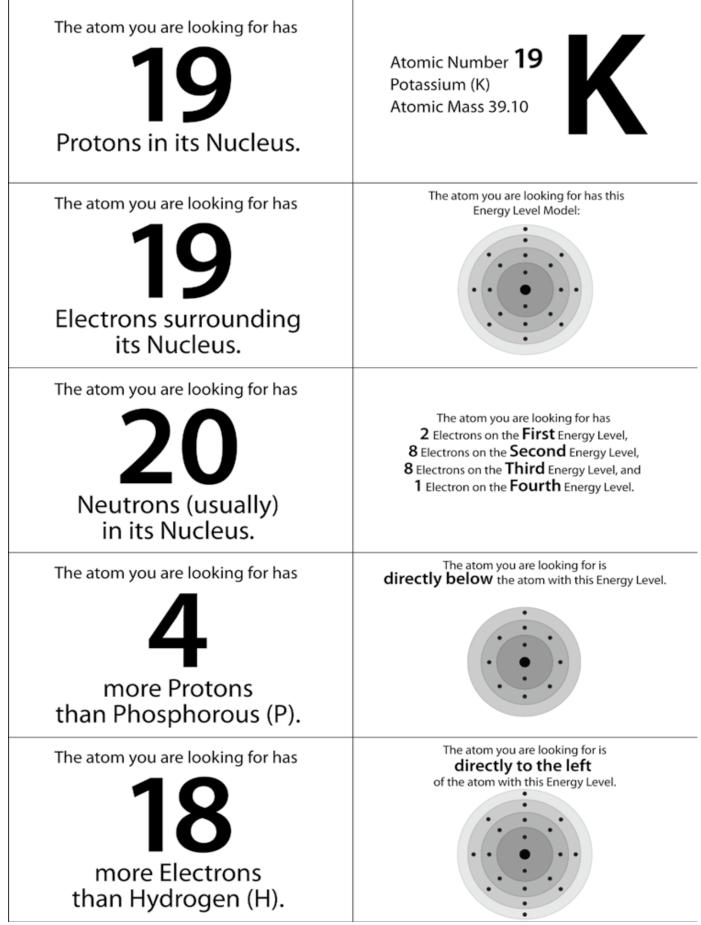


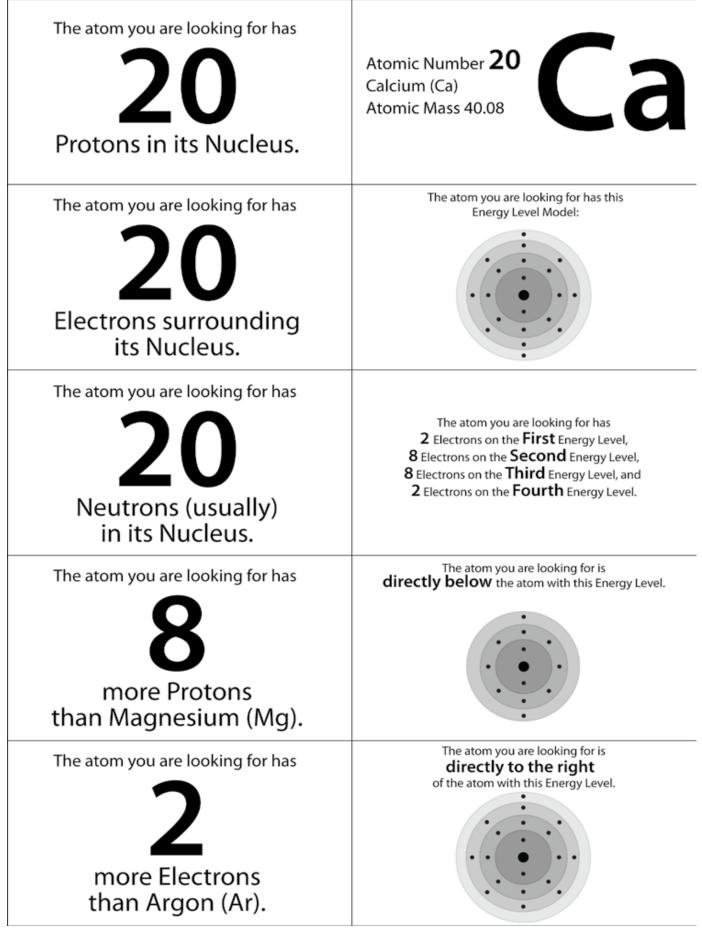






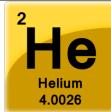


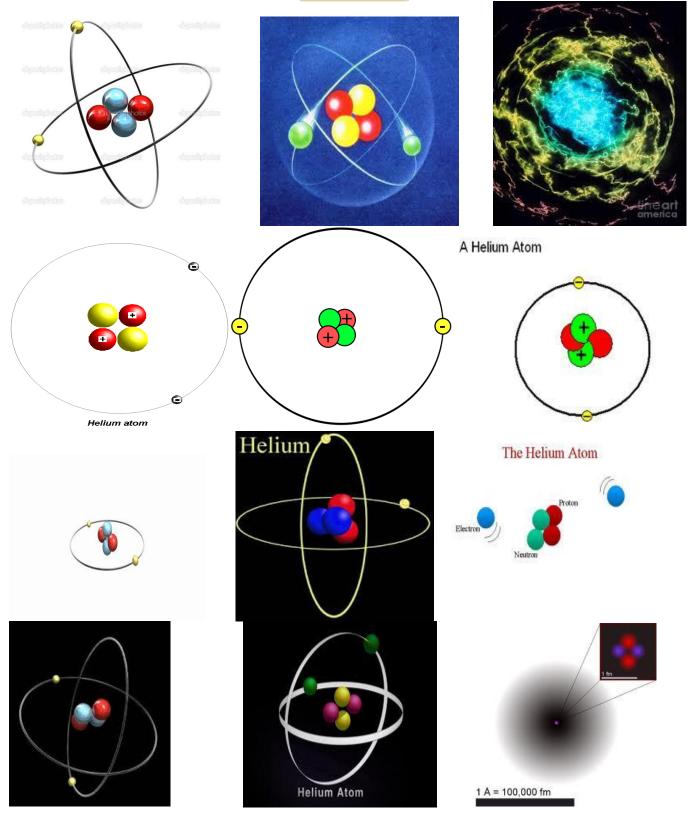




	4.00	NEON 10		20.18	ARGON 18	39.95	
	er	FLUORINE 9	•	19.00	CHLORINE 17	35.45	
S S T S L	he correct numl rgy levels.	OXYGEN 8	•	16.00	sulfur 16	32.07	
	Complete each energy level model by drawing the correct number of electrons in their corresponding energy levels.		•	14.01	PHOSPHORUS 15	30.97	
ERGY MEN	nergy level mod ons in their cori	CARBON 6	•	12.01	Silicon 14	28.09	
	omplete each ei of electr	BORON 5	•	10.81	ALUMINUM 13	26.98	
Ш	Ŭ	BERYLLIUM 4	•	9.01	MAGNESIUM 12 12	24.31	CALCIUM 20 40.08
HYDROGEN 1	1.01	LITHIUM 3	•••	6.94	sopium 11	22.99	POTASSIUM 19 39.10

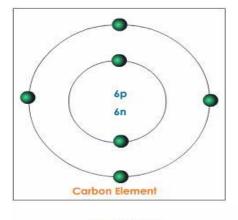
The Helium Atom

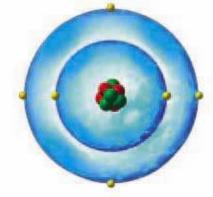




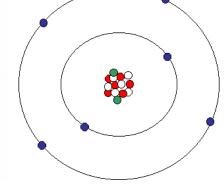
The Carbon Atom

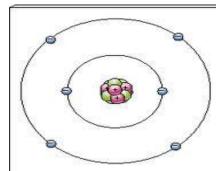


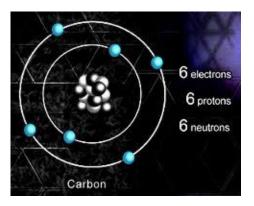


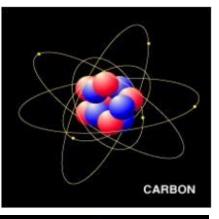


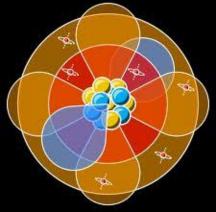
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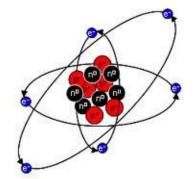




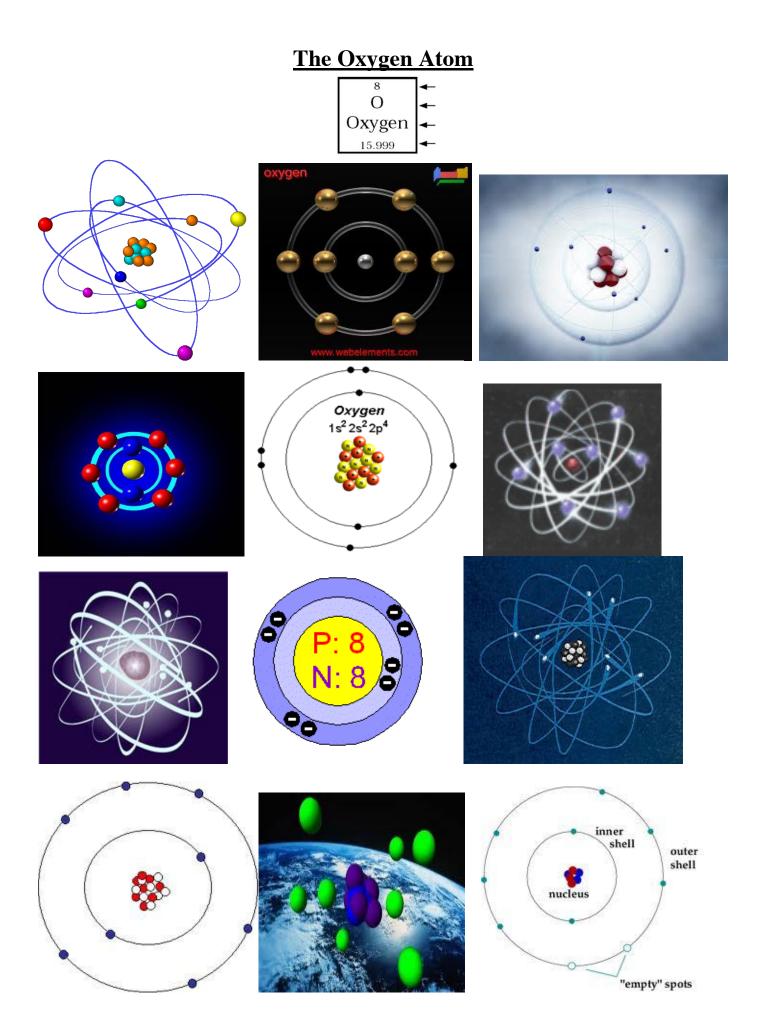












Lesson 2

Word Bank:

- 1) proton
- 2) neutron
- 3) electron
- 4) electron cloud
- 5) electron orbit or shell
- 6) nucleus