GRCI SCIENCE

SNC1DI



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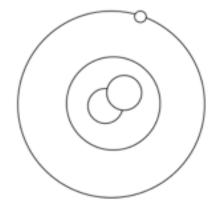
Atoms are made up of	different types of particles called	particles.
→ PROTONS: Large,	charged particles located in the	of the atom.
	particles located in the	
	charged particles located around th	
	+ +	
** The number of	andis always	s equal and so the atom is
Properties of Atoms		
•	mber of in the nucleus of its	atoms.
	s the :	
	ave different numbers of protons, their n atom (how heavy it is) can be calculated by: _	
· ·	s of elements on the Periodic Table are neutral) I Electrons can be added orm	

Activity #1: Complete the table below to summarize what you have learned about atoms

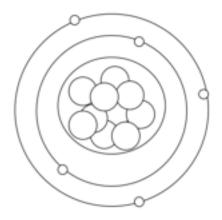
Subatomic Particle	Relative Mass	Relative Charge	Location in the atom
Proton			
Electron			
Neutron			

Activity #2: Study the atoms and complete the questions below!

A.



В.



1. How many protons are in:

1. How many electrons are in:

1. How many neutrons are in:

1. What is the atomic weight of:

Atom A? _____

Atom B? _____

Atom B? _____

Atom A? _____

Atom A? _____

Atom B? _____

Atom B? _____

Atom A? _____

Activity #3: If you know the atomic number (number of protons) and the atomic mass (the sum of the number of protons and neutrons), write a calculation (mathematical formula) that you could use to find the number of neutrons in an atom.

Activity #4: Assuming that each atom is neutral, copy and complete the table by filling in the blanks

Atomic Number	Atomic Mass	Number of Protons	Number of Neutrons	Number of Electrons
8	16			
11			12	
		14	16	
	29			14

Activity #5: An ion is an atom that has gained an electric charge by gaining or losing electrons to become either positive or negative.

- a)A magnesium atom has 12 protons. How many electrons does a magnesium ion, with a charge of +2 contain?
- b)A fluorine atom has an atomic number of 9. How many electrons does a fluorine ion, with a charge of -1 have?