

# ATOM, PERIODIC TABLE AND BOHR-RUTHERFORD DIAGRAM

1. Complete the following chart:

Name of particle	Symbol	Charge	Location
Proton			
Neutron			
Electron			

2. Fill in the blanks:

In the periodic table, elements are arranged in order of their \_\_\_\_\_.

The atomic number of an element is the number of \_\_\_\_\_. The atomic mass of an element is the sum of \_\_\_\_\_ and \_\_\_\_\_ in the nucleus.

The number of protons in an atom is equal to the number of \_\_\_\_\_ because atoms in the periodic table are neutral.

<sup>A</sup>  
z **X** In the following chemical notation the X represents \_\_\_\_\_  
\_\_\_\_\_, the A represent \_\_\_\_\_ and  
the Z represent \_\_\_\_\_.

3. Complete the following chart:

Element Name	Atomic Number	Mass Number	Number of protons	Number of electrons	Number of neutrons
Aluminum					
	4				
		40			
Carbon					
			5		
Neon					
		31			