

Bangladesh International Tutorial  
Subject: Chemistry Class VIII

**Fourth Week: 26-30<sup>th</sup> April**

**Worksheet 1**

True and False (write the words true or false for each statement)

- a) NaCl is a covalent compound.
- b) Ionic compounds are usually soluble in water.
- c) Alkalis turn litmus solution blue.
- d) Sodium chloride and sugar solutions are both alkaline.

Fill in the Blanks

Ionic compounds are formed when a)..... reacts with b)..... Ionic compounds have c)..... melting and boiling points. Covalent bond is formed only between d)..... and it involves e)..... of electrons.

Write down the formula for the following compounds:

- a) Carbon monoxide .....
- b) Silver Nitrate.....
- c) Copper (II) bromide .....
- d) Silver Chloride .....

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**Worksheet 2**

1. a) What does electronic configuration mean?

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b) Atoms have no overall charge- explain.

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c) You can show the electronic configuration for sodium as 2,8,1. Do the same for the following atoms:

i. Fluorine

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ii. Beryllium

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2. a) Why do the members of group 0 have similar properties?

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b) Explain why noble gases are unreactive.

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c) Write down uses of two different noble gases.

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**Worksheet 3**

1. Define the following:

a) Isotope

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b) Electrolysis

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c) Mass number

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d) Atomic number

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2. a) What is the trend in the reactivity of the halogens?

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b) Chlorine is more reactive than bromine. Why?

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**Video explaining the different trends in the periodic table:**

<https://www.youtube.com/watch?v=N2TrkKHYqq4>