



Science Review


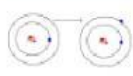

Chemical Bonding

Grade 8 National

Feb, 2022

- Referring to the Summary sheet, decide whether the following properties apply to ionic or covalent bonds.

	Ionic Bond	Covalent Bond
 do not conduct electricity	<input type="radio"/>	<input type="radio"/>
 soluble in water	<input type="radio"/>	<input type="radio"/>
 low melting point	<input type="radio"/>	<input type="radio"/>
 liquid or gas at room temperature	<input type="radio"/>	<input type="radio"/>
 conduct electricity	<input type="radio"/>	<input type="radio"/>
 solid at room temperature	<input type="radio"/>	<input type="radio"/>
 share electrons	<input type="radio"/>	<input type="radio"/>

	Ionic Bond	Covalent Bond
 high melting point	<input type="radio"/>	<input type="radio"/>
 transfer electrons	<input type="radio"/>	<input type="radio"/>
 usually not soluble in water	<input type="radio"/>	<input type="radio"/>

- Choose the correct answer/s.

1- Ionic bonding is between.....

- a- metal and metal
- b- metal and non-metal
- c- non-metal and non-metal

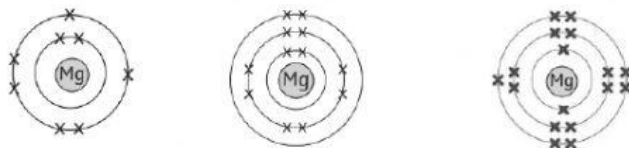
2- An ion is....

- a- an atom
- b- a compound
- c- a charged particle

3- Electrostatic forces are caused by....

- a- Oppositely charged particles
- b- Two positively charged particles
- c- Two negatively charged particles.

4- The electron configuration of Magnesium is....



5- Referring to the periodic table and the Summary sheet, decide the charge for each element or polyatomic ion in the following..

a- NH_4 _____

b- Fe _____

c- CO_3 _____

d- Ba _____

6- Choose the correct chemical formula for each of the following combinations of elements: (refer to the periodic table to find the valency of the elements)

a- Potassium and Iodine

KI

K_2I_2

KI_2

b- Carbon and Chlorine

CCl

C_4Cl

CCl_4

c- Phosphorus and Oxygen

P_2O_2

P_2O_5

P_5O_2