



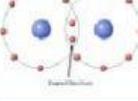
## Science Review

### 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
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- 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

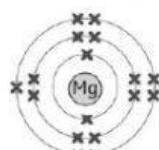
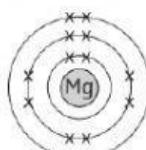
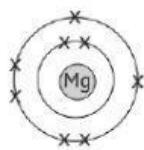
2- An ion is....

- 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<sub>4</sub>

b- Fe

c-  $\text{CO}_3$

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<sub>2</sub>

### b- Carbon and Chlorine

CC1

C<sub>4</sub>Cl

CCl<sub>4</sub>

### c- Phosphorus and Oxygen

$P_2O_2$

$\text{P}_2\text{O}_5$

P<sub>5</sub>O<sub>2</sub>