

MINISTRY OF EDUCATION, HERITAGE AND ARTS
YEAR 11 CHEMISTRY
REVISION WORKSHEET 6

Write the answers to the following questions in your exercise/activity books.

Atomic Structure and Bonding

1. In Periods 2 and 3, the trend in melting point from left to right in the Periodic Table is from
 - A. low to medium to high.
 - B. low to high to medium.
 - C. high to medium to low.
 - D. medium to high to low. **(1 mark)**

2. Ions are charged particles that are found in ionic compounds.
 - i. State whether a neutral atom has an electrical charge. **(1 mark)**
 - ii. Explain how ions are formed. **(2 marks)**

3. A magnesium atom and an oxygen atom forms a chemical bond when they combine together to form a new compound called magnesium oxide.
 - i. State the type of chemical bond that is formed between the magnesium and oxygen atoms. **(1 mark)**
 - ii. Draw an electron diagram to show how the bond mentioned in part (i) is formed between magnesium and oxygen atoms. **(2 marks)**
 - iii. Name the atom that gains electrons. **(1 mark)**
 - iv. Describe where the electrons come from for the atom that gains the electrons. **(1 mark)**

4. Differentiate between ionic bonding and covalent bonding. **(2 marks)**

5. Describe two properties of ionic compounds. **(4 marks)**

6. Describe two properties of covalent compounds. **(4 marks)**

The End