

**MINISTRY OF EDUCATION, HERITAGE AND ARTS
YEAR 11 CHEMISTRY
REVISION WORKSHEET 9**

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

Elements, Compounds and Mixtures

1. Leaves are green because they contain the pigment known as chlorophyll. Some Year 11 Chemistry students wanted to determine whether leaves would contain other pigments.
 - i. State the method that students should use to investigate whether the leaves contain any other pigments. **(1 mark)**
 - ii. Describe the method stated in part (i). **(2 marks)**

2. Distillation and fractional distillation are very similar, however, they are used for separating different mixtures.
 - i. State the type of mixture for which distillation is used. **(1 mark)**
 - ii. State the type of mixture for which fraction distillation is used. **(1 mark)**
 - iii. Describe the difference between distillation and fractional distillation. **(2 marks)**

3. Describe how the following mixtures can be separated.
 - i. Sugar from a mixture of sugar and water. **(2 marks)**
 - ii. Clean water from a mixture of mud and water. **(2 marks)**
 - iii. Pure water from sea water. **(2 marks)**
 - iv. Different colours of dye from a green food colouring. **(2 marks)**

The End