

MINISTRY OF EDUCATION, HERITAGE AND ARTS
YEAR 11 CHEMISTRY
REVISION WORKSHEET 8

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

Elements, Compounds and Mixtures

1. State whether each of the following changes is a chemical or physical change.
 - i. Burning kerosene. (1 mark)
 - ii. Melting of ice. (1 mark)
 - iii. Boiling of water. (1 mark)
2. Define solubility. (1 mark)
3. A solubility curve shows how the solubility of a substance changes as the temperature of the solvent is increased.
 - i. Using the data from the table below, draw the solubility curve for potassium iodide.

Temperature (°C)	Solubility (g/ 100 g of water)
0	103
20	145
40	160
60	175
80	190
100	205

- (3 marks)**
- ii. Using the graph, find the solubility of potassium iodide at 55 °C. (1 mark)
 - iii. Describe the relationship between the solubility of potassium iodide and the temperature. (1 mark)
 4. Define the following terms/phrases:
 - i. Centrifugation (1 mark)
 - ii. Distillation (1 mark)
 - iii. Fractional distillation (1 mark)
 - iv. Chromatography (1 mark)

The End