

Revision list – Chemistry combined higher

- 1) How would you design an experiment to test the rate of an acid-metal reaction?
- 2) How would you collect a gas from a delivery tube in an experiment?
- 3) How do you calculate an average from a graph?
- 4) When do you stop an experiment to test the rate of a reaction?
- 5) Describe and Explain the factors that effect the rate of a reaction
- 6) What are the chemical tests for the presence of:
 - Hydrogen
 - Carbon dioxide
 - Oxygen
 - Chlorine
- 7) Find the mass of Water produced in the reaction:
 $\text{NaOH} + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O}$
From 80g of Sodium Hydroxide
- 8) What are the properties of the noble gases?
- 9) What equation determines the number of atoms in a substance from the number of moles?
- 10) Define a Homologous series.
- 11) Write the equation for the complete combustion of heptane, C_7H_{16} .
- 12) What are the properties of the Halogens(group 7)?
- 13) Describe and explain the reactivity trends of the Halogens.
- 14) Predict the Ionic product formed in the reaction between Potassium and Iodine.
- 15) Define Redox in terms of electrons.
- 16) Describe how the atmosphere has changed since the formation of the earth.
- 17) Describe an experiment to find the Empirical formula of Magnesium Oxide.
- 18) How do you calculate the Empirical formula from its mass?
- 19) What are some signs of oxidation in iron and copper?
- 20) Define the terms exothermic and Endothermic
- 21) What is a catalyst?
- 22) How does a catalyst work?