SL Paper 2

c. The relative atomic mass of naturally occurring copper is 63.55. Calculate the abundances of ^{63}Cu and ^{65}Cu in naturally occurring copper. [2]

d. The isotopes of some elements are radioactive. State a radioisotope used in medicine. [1]

e. State a balanced equation for the reaction of sodium with water. Include state symbols. [2]

f. With reference to electronic arrangements, suggest why the reaction between rubidium and water is more vigorous than that between sodium and water. [2]

g. Describe and explain what you will see if chlorine gas is bubbled through a solution of [3]

   (i)   potassium iodide.

   (ii)   potassium fluoride.