

MAKUENI BOYS HIGH SCHOOL
APRIL HOLIDAY ASSIGNMENT
CHEMISTRY FORM 4 -2020

1. Using dots and crosses to represent electrons draw the structures of the following compounds

a) Aluminium chloride dimer

b) Water molecule

c) Carbon (II) Oxide

d) H_3O^+

2. Describe how the following ions can be differentiated.

i) SO_4^{2-} and SO_3^{2-}

ii) Zn^{2+} and Pb^{2+}

iii) Mg^{2+} , Ca^{2+} and Pb^{2+}

iv) CO_3^{2-} and SO_3^{2-}

3. Describe how the following compounds can be prepared

i) Calcium carbonate

ii) Lead (II) Sulphate

iii) Magnesium Chloride

iv) Copper (II) Sulphate crystals

v) Potassium hydrogen carbonate

4. Make notes on radioactivity.

5. Give the number of bonding electrons in the following compounds

i) Carbon (IV) oxide

ii) Nitrogen

iii) Chlorine

iv) Silicon (IV) Chloride

