

S.5 CHEMISTRY HOLIDAY WORK

1. Using locally available materials, design a **3-D model** to show the working of a mass spectrometer
2. Using **text books**, search for information about radioactive decay, nuclear stability, decay rates, and half-life, applications and effects of radioactivity. Write down your findings
3. Using **text books**, search for information about enthalpy of reaction, enthalpy of formation, enthalpy of atomisation, bond energy, enthalpy of combustion, enthalpy of neutralisation, and enthalpy of sublimation, with real life examples in each case. Write down your findings
4. Using **text books**, search for information about the unique nature of carbon in organic compounds functional groups, homologous series, different types of isomers. Give examples in each case