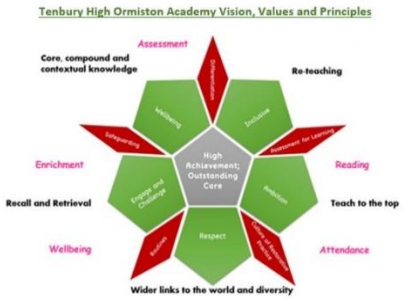
TENBURY HIGH
ORMISTON ACADEMY



Curriculum Overview for Chemistry
Year 11 Set 3 and 4

Half Term 3: Organic chemistry/ **Substantive Knowledge:** ❑ Describe how crude oil is formed ❑ Identify alkanes ❑ Identify the general formula for an alkane ❑ Describe fractional distillation. ❑ Describe the properties of hydrocarbons. ❑ Explain the properties of hydrocarbons. ❑ Describe cracking. ❑ Explain why we do cracking. ❑ Compare the reactivity of alkanes and alkenes. Disciplinary Knowledge: ❑ Identify alkenes. ❑ Identify the general formula for an alkene and alkane. **Using resources** **Substantive Knowledge:** ❑ Define potable water ❑ Define LCA Disciplinary Knowledge ▪ **Compare LCA for plastic and paper bags.**		Skim and Scan of source information Decoding terms Etymology of key terms
		Alkanes, Alkenes, Catalytic cracking, Combustion, Complete combustion, Crude oil, Cracking, Fractional distillation, Homologous series, Hydrocarbons, Steam cracking
		Baseline Recall questions to start every lesson End of unit assessment
		Revision Card preparation for every lesson Repetition of use of revision cards for end of unit assessment Exam questions - application
Half Term 4: Using resources **Substantive Knowledge:** ▪ **Describe how to test for pure water.** ▪ **Describe how to make potable water** ▪ **Describe ease of obtaining potable water from waste, ground and salt water.** ▪ **Evaluate ways of reducing the use of limited resources.** **Disciplinary Knowledge:** ▪ **Evaluate ways of reducing the use of limited resources.**		Skim and Scan of source information Decoding terms Etymology of key terms
		Alloy Composite Corrosion Desalination Displacement Finite resources Ground water Life cycle assessment (LCA) Potable water Raw materials Renewable resources Sterilisation Sustainable development
		Baseline Recall questions to start every lesson End of unit assessment
		Revision Card preparation for every lesson Repetition of use of revision cards for end of unit assessment Exam questions - application