

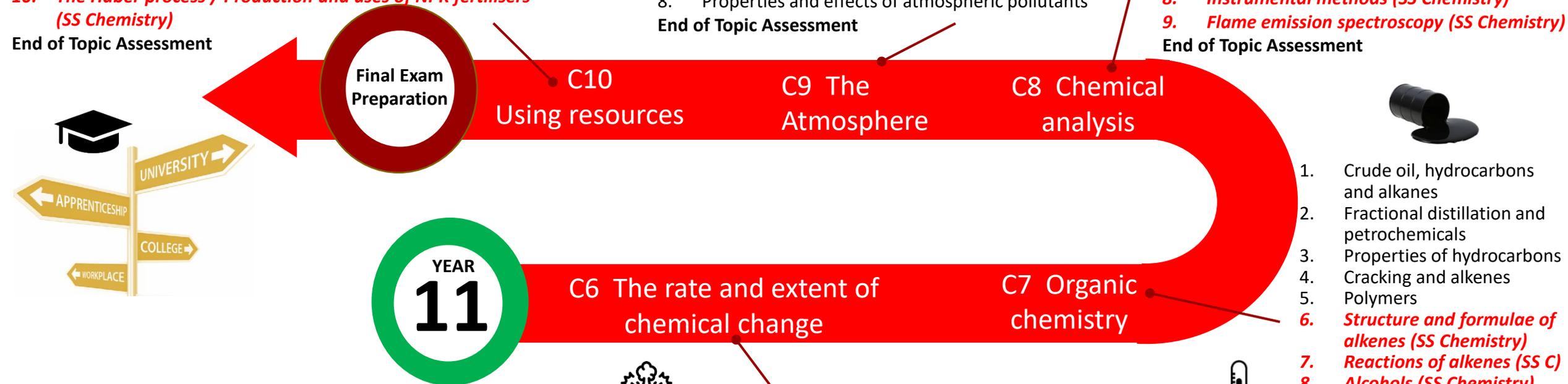
- Using the Earth's resources and sustainable development
 - Potable water
 - Waste water management
 - Alternative methods of extracting metals (HT only)
 - Life cycle assessment
 - Ways of reducing the use of resources
 - Corrosion and its prevention (SS Chemistry)**
 - Alloys as useful materials (SS Chemistry)**
 - Ceramics, polymers and composites (SS Chemistry)**
 - The Haber process / Production and uses of NPK fertilisers (SS Chemistry)**
- End of Topic Assessment



- The proportions of different gases in the atmosphere
 - The Earth's early atmosphere
 - Greenhouse gases
 - Human activities which contribute to an increase in greenhouse gases in the atmosphere
 - Global climate change
 - The carbon footprint and its reduction
 - Atmospheric pollutants from fuels
 - Properties and effects of atmospheric pollutants
- End of Topic Assessment



- Pure substances
 - Formulations
 - Test for hydrogen, oxygen, carbon dioxide and chlorine
 - Chromatography
 - Flame tests (SS Chemistry)**
 - Metal hydroxides (SS Chemistry)**
 - Carbonates, Halides and Sulfates (SS Chemistry)**
 - Instrumental methods (SS Chemistry)**
 - Flame emission spectroscopy (SS Chemistry)**
- End of Topic Assessment



YEAR
11

C6 The rate and extent of chemical change



- Calculating rates of reactions
 - Factors which affect the rates of chemical reactions
 - Collision theory and activation energy
 - Catalysts
 - Reversible reactions
 - The effect of changing conditions on equilibrium (HT only)
 - The effect of changing concentration (HT only)
 - The effect of temperature changes on equilibrium (HT only)
 - The effect of pressure changes on equilibrium (HT only)
- End of Topic Assessment



C7 Organic chemistry

- Crude oil, hydrocarbons and alkanes
 - Fractional distillation and petrochemicals
 - Properties of hydrocarbons
 - Cracking and alkenes
 - Polymers
 - Structure and formulae of alkenes (SS Chemistry)**
 - Reactions of alkenes (SS C)**
 - Alcohols (SS Chemistry)**
 - Carboxylic acids / esters (SS Chemistry)**
 - Polymers (SS Chemistry)**
 - Addition polymerisation (SS Chemistry)**
 - Condensation and polymerisation (HT only)**
 - Naturally occurring polymers (SS Chemistry)**
- End of Topic Assessment



Year 11 Learning Journey Chemistry