GCSE Chemistry Triple Science **Year 11**	**Autumn HT1 Chapter 7**	**Autumn HT2 Chapter 6**	**Autumn HT2 Chapter 8**	**Spring HT1 Chapter 9**	**Spring HT2 Chapter 10**	**Summer HT1**
	1. Crude oil, hydrocarbons and alkanes 2. Fractional distillation and petrochemicals 3. Properties of hydrocarbons 4. Combustion 5. Cracking and alkenes 6. Structure and formulae of alkenes 7. Reactions of alkenes 8. Alcohols 9. Carboxylic acids 10. Addition polymerisation 11. Condensation polymerisation 12. Amino acids 13. DNA and other polymers 14. Intermolecular forces Visualise and represent 3D models	1. Measuring rates 2. Limiting reactions and molar masses 3. Calculating rates 4. Factors affecting rates 5. Rate of reaction required practical 6. Factors increasing the rate 7. Collision theory 8. Catalysts 9. Reversible reactions and energy changes 10. Equilibrium 11. Changing concentration and equilibrium 12. Changing temperature and equilibrium 13. Changing pressure and equilibrium 14. Using a tangent to measure rate of change	1. Pure substances 2. Formulations 3. Chromatography 4. Chromatography required practical 5. Test for gases 6. Flame tests 7. Metal hydroxides 8. Tests for anions 9. Ions required practicals 10. Instrumental methods 11. Flame emission spectroscopy 12. Use an appropriate number of significant figures	1. Proportions of gases in the atmosphere 2. The Earth's early atmosphere 3. How oxygen increased 4. How carbon dioxide decreased 5. Greenhouse gases 6. Human activities 7. Global climate change 8. Carbon footprint and its reduction 9. Limitations on carbon footprint reduction 10. Atmospheric pollutants of fuels 11. Properties of effects of atmospheric pollutants 12. Use rations, fractions and percentages	1. Using the Earth's resources and sustainable development 2. Potable water 3. Water sample required practical 4. Water treatment Alternative methods of metal extraction 5. Life cycle assessment and recycling 6. Ways of reducing the use of resources 7. Corrosion and its prevention 8. Alloys as useful materials 9. Ceramics, polymers and composites 10. Haber process 11. Production and use of NPK fertilisers	1. Revision 2. Exam technique 3. Knowledge gaps