## Chemistry Curriculum Map: Year 10

**C1** Periodic Table

## **C6** Rate and Extent of chemical change

**C5 Energy Changes** 











**AUTUMN TERM** 



- History of atomic theory
- Structure of the atom
- Mass and charge of particles
- Electron configuration
- Elements, mixtures & compounds
- Development of the periodic table
- Metals and non-metals
- Groups 1, 7 and 0

- Measuring rates of reaction
- Collision theory & activation energy
- Factors affecting reaction rates
- Catalysts and equilibrium

- **Endothermic reactions**
- Exothermic reactions
- Energy profiles

**SPRING TERM** 



**C4 Chemical Changes** 



**C8 Chemical Analysis** 





- Reactivity of metals Reactions of acids
- Electrolysis

- Chromatography
- Purity & formulations
- Testing for gases

- Evolution of the atmosphere
- Greenhouse gases
- Global Warming
- Atmospheric pollutants

**C9** Chemistry of the Atmosphere

**SUMMER TERM** 

**C10 Using Resources** 



**C7 Organic Chemistry** 



- Finite and renewable resources
- Sustainability
- Potable water
- Waste water treatment
- Life Cycle Assessments

- Formation of crude oil
- Fractional distillation
- Structure of Alkanes & Alkenes
- Properties of fractions
- Cracking & combustion