## Chemistry Curriculum Map: Year 10

**C5 Energy Changes** 

## **C1** Atomic Structure & the Periodic Table







## **AUTUMN TERM**

- **C6** Rate and Extent of chemical change
  - Measuring rates of reaction
  - Collision theory & activation energy
  - Factors affecting reaction rates
  - Catalysts and equilibrium
- Endothermic reactions
- Exothermic reactions
- · Energy profiles

- Elements, mixtures & compoundsDevelopment of the periodic table
- Metals and non-metals
- Groups 1, 7 and 0

- History of atomic theory
- Structure of the atom
- Mass and charge of particles
- Electron configuration

C2 Bonding, structure and the properties of matter

**C9** Chemistry of the Atmosphere



**C8 Chemical Analysis** 



**SPRING** 



- Allotropes of carbon
- Properties of matter

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

- Chromatography
- Purity & formulations
- · Testing for gases

**SUMMER TERM** 

**C4 Chemical Changes** 



**C10 Using Resources** 



**C7 Organic Chemistry** 



- Separating mixtures
- Extraction of metals
- · Acids and Alkalis

- 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