



## Scheme for Learning

### Curriculum Area – Science

#### Overall Curriculum Aim:

*Develop a love of science and intellectual curiosity whilst embedding the knowledge and skills required to be successful at GCSE and beyond.*

#### Overview – Year 10 Chemistry 2021-2022

Personnel Responsible – Mrs. R. Cooper

Quality Assured by – Mr. J. Anderson (AVP)

Exam Board/Qualification at KS4 – AQA GCSE Science

| Assessment Cycle | Topic/Unit Title – Big Questions                             | Rationale/Skill Development  | Link to Assessment Objectives/Progression Scales Skills      |
|------------------|--|--|--|
| 1                | Are all metals made equal?                                   | To develop students' intellectual curiosity about metals in the periodic table and their different properties and reactivity, by equipping them with the subject knowledge required for GCSE whilst allowing them to develop their understanding of how the world works by questioning what they already know.     | AQA GCSE Trilogy/Separate Science Chemistry Topic C4         |
| 2                | How do chemicals react to form new products?                 | To develop students' practical skills using a variety of techniques throughout the topic. To allow students to understand the key concept of collision theory through practical application. To see the relevance of chemical reactions in aiding modern day living by seeing a variety of practical applications. | AQA GCSE Trilogy/Separate Science Chemistry Topic C5         |
| 3                | How do scientists use reactions to produce useful chemicals? | To develop students understanding of how scientific reactions can be used and manipulated by chemists to produce desired products.   | AQA GCSE Trilogy/Separate Science Chemistry Topic C6 and C7  |
| 4                | How do we affect and live on planet Earth?                   | To develop an understanding of where our atmosphere came from and how we are altering its composition by our actions. How scientific processes are used to survive on planet Earth including providing clean drinking water and treating waste water.  | AQA GCSE Trilogy/Separate Science Chemistry Topic C9 and C10 |