|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Subject: Chemistry** | | | | | | |
| **Year:11** | | | | | | |
| Half -Term | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Themes/  Content/  A can of a product  Description automatically generated with medium confidenceUnits covered | **Rates of Reaction**  Calculating rates, factors affecting rates  A cartoon rocket ship with red and blue stripes  Description automatically generatedRequired practical investigations  A purple and green masks with a sad face  Description automatically generatedCatalysts  Reversible reactions and equilibrium  A cartoon rocket ship with red and blue stripes  Description automatically generatedDrawing tangents | **Organic Chemistry**  Crude oil, hydrocarbons and their properties  A cartoon rocket ship with red and blue stripes  Description automatically generated  Fractional distillation  A cartoon rocket ship with red and blue stripes  Description automatically generated  Cracking alkenes    **SS ONLY:**  Reaction of alkenes, alcohols, carboxylic acids, polymerisation, amino acids and DNA | **Chemical Analysis**  Pure substances and formulations  A cartoon rocket ship with red and blue stripes  Description automatically generatedChromatography and Rf values    Testing for gases,  A cartoon rocket ship with red and blue stripes  Description automatically generated  **SS ONLY:** Ion tests and Chemical tests  A cartoon rocket ship with red and blue stripes  Description automatically generated**SS ONLY:** Instrumental methods | **Atmospheric Chemistry**  Early atmosphere and today’s atmosphere  A rainbow colored heart with arrows  Description automatically generated  Human activities, pollutants, global warming and climate change | **Using Resources – Sustainable Development**  Using earth’s resources and alternative methods of metal extraction  A drawing of a book  Description automatically generated  Life cycle assessments  A cartoon rocket ship with red and blue stripes  Description automatically generatedPotable water and waste water treatment  **SS ONLY:**  A cartoon rocket ship with red and blue stripes  Description automatically generatedNPK Fertilisers; Ceramics, Polymers and composites; Corrosion; Habor Process |  |