|  |  |  |
| --- | --- | --- |
| **What will we be learning?****C4 – Chemical Changes** | **Why this? Why now?**Previous learning – Atomic structure, Bonding and Structure**What other GCSE Science units does this unit relate to?**Chemistry – Atomic Structure, Bonding and Structure, Quantitative, Energy ChangesBiology – Digestion, Bioenergetics, Homeostasis, Physics – Electricity  | **Key Words:**Metal Reactivity seriesOxidationReductionRedoxDisplacementOreAcidAlkali AqueouspHNeutralisationSaltStrong WeakElectrolysisElectrolyteInert electrodeAnodeCathodeDischarge |
| **What will we learn?*** Reactivity of metals
* Reactions of acids
* Electrolysis

**Required Practicals in this topic** * Preparation of a pure, dry sample of a salt
* Electrolysis of aqueous solution
* Titration to find the concentration of an unknown solution (CHEMISTRY only)

**Useful equations/formulae/maths skills for this unit:**OIL RIGPANiCpH is a logarithmic scale  **Misconceptions in this topic**Concentrated/Dilute is not the same as Strong/WeakAcids are not more dangerous than alkalisIons can conduct electrical current |
| **What opportunities are there for wider study?****If you are interested in this unit, what careers does it relate to?**Flavourist Toxicologist Sustainability Chemist Sports Science Solar Lab technician Teacher**Collins Revision guide relevant pages for this unit:**Foundation – P112-117, P128-129, P146-147Higher – P114-118, P132-133, P150-151Separate – P38-42, P54-55, P76-77 |
| **How will I be assessed?**End of topic assessment  |