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| **Week** | **Topic-Theory****GCSE Year10/ CHEMISTRY/Year Plan/ SOW- 2023-2024**/ GCSE | **Practical** | **Assessment** |
| 1 | History of atom |  | Baseline test |
| 2 | Structure of atom |  |  |
| 3 | Electronic Structure |  | Topic test |
| 4 | Isotopes |  |  |
| 5 | Development of periodic table |  |  |
| 6 | Mixture(C12)Separation technique | Filtration | End of topic |
| 7 | Alkali metals /Explaining the trends | Technique- carousel |  |
| 8 | Properties of alkali metals |  |  |
| 9 | October Half Term Holidays |  |  |
| 10 | Half Term Holidays |  |  |
| 11 | Halogens /Explaining the trends | Fractional distillation (Demo) |  |
| 12 | Properties of halogens | Chromatography(RP6) | Progression Check |
| 13 | Noble gases  |  |  |
| 12 | Water  | Water purification(RP8) |  |
| 13 | Transition metals |  |  |
| 14 | Periodic table and atomic structure consolidation  |  | MA1 |
| 15 | Gap Analysis |  |  |
| 16 | Feedback/Reflection |  |  |
| 17 | Christmas /Term Holidays |  |  |
| 18 | Term Holidays |  |  |
| 19 | Ionic Bonding |  |  |
| 20 | Properties of Ionic Bonding |  |  |
| 21 | Covalent Bonding & Properties | Test for ions | Progress Check |
| 22 | Giant Covalent structure |  |  |
| 23 | Metallic Bonding |  |  |
| 24 | Earth’s atmosphere | Test for water |  |
| 25 | Feb/Half Term Holidays |  |  |
| 26 | Chemical calculations-1 |  | MA2 |
| 27 | Reactivity & Displacement |  |  |
| 28 | Extraction f metals((C5 & C14) |  |  |
| 29 | Exothermic & Endothermic reactions/ Using energy transfers | Investigating temp changes( RP4) |  |
| 30 | Reaction profile& Bond energy calculations |  |  |
| 31 | LCA/ Recycling |  |  |
| 32 | April/Term Holidays |  |  |
| 33 | Term Holidays |  |  |
| 34 | Electrolysis |  |  |
| 35 | Electrolysis | Electrolysis( RP3) |  |
| 36 | Crude oil &fuel |  |  |
| 37 | Crude oil & Fuel |  | Progress Check |
| 38 | Greenhouse gases and Global climate change | Test for Gases |  |
| 39 | Atmospheric pollutants |  |  |
| 40 | May/Half Term Holidays |  |  |
| 41 | Revision |  | End of Year |
| 42 | Examination |  |  |
| 43 | Work Experience |  |  |
| 44 | Chemical calculations-2 |  |  |
| 45 | Preparation of salt | Indicators |  |
| 46 | Neutralisation | Preparation of salt |  |
| 47 | Titration | Titration |  |

***Curriculum intent, implementation and impact in Chemistry***

In the chemistry lessons at Brook Sixth Form & Academy, we intent to shape independent learners by providing knowledge, inspiring them to create an ethos of curiosity where children are confident to question and make them effective communicators.

Here we implement our intent though raising aspirations and opening the children’s eyes to a world beyond their immediate surroundings.

We aim at a group of active learners who can develop their own ideas and make links between ideas and explore ways to do achieve their dreams.