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| **Subject: Chemistry** | | | | | | |
| **Year:10** | | | | | | |
| 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 | **Atomic Structure and the Periodic Table**  Atoms, Elements and Compounds  A cartoon rocket ship with red and blue stripes  Description automatically generatedMixtures and separation Techniques  A purple and green masks with a sad face  Description automatically generatedHistory of the atom  Atomic Structure, Isotopes and Electronic Configuration, groups  A rainbow colored heart with arrows  Description automatically generatedDevelopment of the periodic table  A cartoon rocket ship with red and blue stripes  Description automatically generated  Chemical equations  A cartoon rocket ship with red and blue stripes  Description automatically generated**SS ONLY:** Transition Metals | **Bonding, Structure and Properties of Matter**  Ionic bonding, Compounds and Properties  A cartoon rocket ship with red and blue stripes  Description automatically generatedCovalent bonding and properties of simple and giant covalent structures  A drawing of a book  Description automatically generated  Metallic bonding and alloys    Changes of State    Polymers  A cartoon rocket ship with red and blue stripes  Description automatically generated **SS ONLY:** Nanoparticles and applications | **Quantitative Chemistry**  A cartoon rocket ship with red and blue stripes  Description automatically generatedRelative mass, conservation of mass, balancing and using moles in equations  A purple and green masks with a sad face  Description automatically generated  Limiting reactants  Concentration of solutions  A cartoon rocket ship with red and blue stripes  Description automatically generated**SS ONLY:**  Yield and atom economy  A purple and green masks with a sad face  Description automatically generated  **SS ONLY:** Titrations and calculations  A rainbow colored heart with arrows  Description automatically generated  Uncertainty in measurements | **Chemical Changes**  A purple and green masks with a sad face  Description automatically generatedDisplacement reactions and extracting metals  A cartoon rocket ship with red and blue stripes  Description automatically generated  Making salts  A cartoon rocket ship with red and blue stripes  Description automatically generated  pH scale and neutralisation  **SS ONLY**: Strong and weak acids | **Chemical Changes (cont.)**  A cartoon rocket ship with red and blue stripes  Description automatically generated Electrolysis – introduction; products; electrolysis of brine and aqueous solutions and the extraction of aluminium | **Energy Changes**  Endothermic and exothermic energy changes  A cartoon rocket ship with red and blue stripes  Description automatically generated  Using energy transfers    Reaction profiles  A cartoon rocket ship with red and blue stripes  Description automatically generatedBond energy calculations  A purple and green masks with a sad face  Description automatically generated**SS ONLY:** Chemical cells and batteries and fuel cells |