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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 CompoundsA cartoon rocket ship with red and blue stripes  Description automatically generatedMixtures and separation TechniquesA purple and green masks with a sad face  Description automatically generatedHistory of the atomAtomic Structure, Isotopes and Electronic Configuration, groupsA rainbow colored heart with arrows  Description automatically generatedDevelopment of the periodic tableA cartoon rocket ship with red and blue stripes  Description automatically generatedChemical equationsA 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 generatedMetallic bonding and alloysChanges of StatePolymersA 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 equationsA purple and green masks with a sad face  Description automatically generatedLimiting reactantsConcentration of solutionsA cartoon rocket ship with red and blue stripes  Description automatically generated**SS ONLY:**Yield and atom economyA purple and green masks with a sad face  Description automatically generated**SS ONLY:** Titrations and calculationsA rainbow colored heart with arrows  Description automatically generatedUncertainty in measurements | **Chemical Changes**A purple and green masks with a sad face  Description automatically generatedDisplacement reactions and extracting metalsA cartoon rocket ship with red and blue stripes  Description automatically generated Making salts A cartoon rocket ship with red and blue stripes  Description automatically generatedpH 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 changesA cartoon rocket ship with red and blue stripes  Description automatically generatedUsing energy transfersReaction profilesA cartoon rocket ship with red and blue stripes  Description automatically generatedBond energy calculationsA purple and green masks with a sad face  Description automatically generated**SS ONLY:** Chemical cells and batteries and fuel cells |