Netherhall School

LEARNING ROADMAP

GCSE

U10. Haber Process
U10. Alloys
U9. Greenhouse Gasses
U9. Atmosphere
U8. Pure Substances
U8. Formulations
U7. Alkanes & Alkenes
U7. Polymers
U7. Crude Oil
U6. Equilibrium
U6. Reversible Reactions
U6. Collision Theory
U6. Rates of Reaction

Y11

U10. LCA
U10. Water Treatment
U9. Climate Change
U8. Anions & Cations
U8. Chromatography
U7. Cracking
U7. Functional Groups
U7. Fractional Distillation
U6. Catalysts
U4. Reactions of Metals
U4. Neutralisation
U5. Fuel Cells

Y10

U1. Atomic Structure
U1. Atoms, Elements & Compounds
U1. Electronic Structure
U1. Metals & Non-metals
U2. States of Matter
U2. Ionic Bonding & Compounds
U2. Metallic Bonding
U3. Balancing Equations
U1. RAM
U1. Periodic Table
U1. Groups 1, 7 & 0
U2. Covalent Bonding & Compounds
U2. Polymers
U3. Moles
U3. Quantitative Chemistry
U4. Electrolysis
U4. Titration
U4. pH Scale
U5. Exo & Endothermic Reactions
U5. Reaction Profiles
Ceramics
Polymers
SMART Materials
Testing Gasses
Catalysts
Endothermic Reactions
Exothermic Reactions
Displacement

Y9

Building on KS2 knowledge about properties and changes of materials

Atoms
Elements
Periodic Table
Compounds
Chemical Formulae
Electron Arrangement
Conservation of Mass
Mixtures
Word & Symbol Equations
Composites
Nanotechnology
Chromatography
Oxidation & Reduction
Thermal Decomposition
Combustion

Y8

Building on KS2 knowledge about properties and changes of materials and rocks

Reactivity
Structure of the Earth
Rock Cycle
Recycling
Carbon Cycle
Global Warming
Climate Change
Non-metals
Metals
Periodic Table
Particle Model
Diffusion
States of Matter

Y7

Building on KS2 knowledge about uses of everyday materials and states of matter

Making Salts
Neutralisation
Alkalis
pH Scale
Acids
Separating Mixtures
Density
Changing States
Particle Model

CHEMISTRY