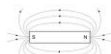
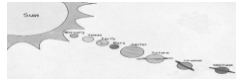


Netherhall School

LEARNING ROADMAP



GCSE

Y11

Y10

Y9
Building on KS2 knowledge about forces and states of matter

Y8
Building on KS2 knowledge about sound, light and magnetism

Y7
Building on KS2 knowledge about seasonal changes, Earth and space and electricity

U8. Solar System

U7. Magnetic Fields

U6. Waves

U5. Newtons Laws

U5. Moments, Levers & Gears

U8. Red Shift

U7. Transformers

U6. Visible Light

U5. Reaction Times

U5. Forces & Elasticity

U5. Scalar & Vectors

U8. Orbits

U7. Generator Effect

U6. Lenses

U5. Stopping Distances

U7. Flemings Left-hand Rule

U6. EM Spectrum

U5. Acceleration

$$q = m \times C_p \times \Delta T$$

Heat (J) Mass (g) Temperature change (°C)
Specific heat capacity (J/g.°C)

Energy Transfers

U2. DC & AC

U3. Changing State

U4. Half Lives

U1. Specific Heat Capacity

U1. Efficiency

U2. Mains Electricity

U3. Particle Model

U1. Non-renewable & Renewable Energy

U2. National Grid

U3. SHC

U4. Radioactive Decay

U4. Nuclear Fission

U2. Circuit Diagrams

U2. Series & Parallel Circuits

U4. Structure of the Atom

U4. Nuclear Fusion

Pressure in Liquids & Gases

Pressure in Solids

Levers

Turning Forces

Stretching & Squashing

Friction

Identifying Forces

Balancing Forces

Measuring Forces



Speed

Motion Graphs

Echoes & Ultrasound



Speed of Sound



Loudness & Pitch

Gravity

Wave Properties

Detecting Sound

Y8

Building on KS2 knowledge about sound, light and magnetism

Magnets & Magnetism

Magnetic Fields

Refraction

Camera

Heating & Cooling

Electromagnets

Reflection

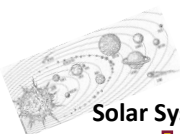
Coloured Light



Lives of Stars

Space Travel

The Universe



Solar System

Earth, Sun & Moon

Series & Parallel

Resistance

Energy Stores & Transfers

Work Done

Moon Craters Investigation

Circuits & Current

Potential difference

Energy Costs

Energy & Power



PHYSICS

