Physics Learning Journey at Manor High School

Physics Paper 2:
Forces, waves, electromagnetism, space*

Physics Paper 1:
Energy, electricity, particles, atomic structure

GCSES

Year 11

- Induced potential, transformers and National Grid *
- Magnetism and electromagnetism
- Lenses *
- Reflection of waves and sound waves *
- Waves
- Waves for detection and exploration *
- Black body radiation *
- Space Physics *
- Loudspeakers *

Year 10

- Static electricity and electric fields *
- Electricity
- Pressure in gases *
- Nuclear fission and fusion *
- Moments, levers and gears *
- Changes in momentum *
- Particles
- Atomic structure
- Uses of radiation*
- Forces
- Pressure *

Triple only content is highlighted *

Year 9

- Energy stores and transfers
- Current, Potential difference Resistance
- Forces and pressure
- Terminal velocity
- Electric circuits
- Acceleration
- Power
- Motion graphs
- Energy resources
- Forces and motion
- Hooke's Law

Year 8

- Thermal conductors and insulators
- Convection
- Electromagnets
- Conduction
- Radiation
- Magnets and magnetic fields
- Motor effect and DC motors
- Heating and cooling
- Transverse and longitudinal waves
- Visible light and prisms
- Hearing and Not hearing
- Reflection
- Infrasound and ultrasound
- Introduction to sound
- The eye and the camera
- Refraction
- Introduction to light

Year 7

- Renewable and non-renewable energy resources
- Series and parallel circuits
- Electricity in the home
- Energy from food
- Energy stores and transfers
- Global warming and power stations
- Electric circuits
- Current, potential difference and resistance
- Weight, mass, gravity and orbits
- Friction and air resistance
- Balanced and unbalanced forces
- Exploring space
- Our solar system
- Days, months, years and seasons
- Streamlining and speed
- Upthrust and density
- Forces and their effects