

Physics combined science and separate physics (*bold is physics only)

Year: 10

In year 10 pupils have 5 physics lessons every two weeks. They follow this sequence of lessons

Half term 1 Energy	Half term 1 & 2 Electricity	Half term 2 Particle Model	Half term 3 & 4 Atomic structure	Half term 5 Forces
Potential energy Investigating kinetic energy Work done and power Dissipation of energy Required practical investigating wasteful energy transfers Efficiency Using energy resources	Static electricity Electric fields Current, potential difference and resistance Ohms Power and energy transfers Required practical resistance in a wire Circuit components Control circuits Required practical V-I components Series and parallel circuits Electricity in the home Transmitting electricity	Density Required practical calculating density of regular and irregular solids and a liquid Changes of state Internal energy Specific heat capacity Required practical specific heat capacity Latent heat Increasing the pressure of a gas	Development of the atom Atomic structure Radioactive decay Properties of radiation and its hazards Nuclear equations Radioactive half life Hazards and uses of radiation and irradiation Uses of radiation in medicine Using nuclear radiation Nuclear fission Nuclear fusion	Forces Speed Acceleration Velocity-time graphs Calculations of motion Heavy or massive Forces and motion Resultant forces Forces and acceleration Required practical acceleration Newtons third law Momentum Keeping safe on the road Moments Levers and Gears Pressure in a fluid Atmospheric fluid Forces and energy in springs