| Subject | Physics | | |
|---------|--|---|--|
| | Interpretation of National Curriculum into Year group Endpoints | | |
| Year | Term 1 | Term 2 | Term 3 |
| 9 | Students will describe and explain the concepts of: Forces • forces and fields: electrostatic, magnetic, gravity • forces as vectors • calculating work done as force x distance; elastic and inelastic stretching • speed of sound, estimating speeds and accelerations in everyday contexts • interpreting quantitatively graphs of distance, time, and speed • acceleration caused by forces; Newton's First Law • weight and gravitational field strength • decelerations and braking distances involved on roads, safety. | Students will describe and explain the concepts of: Heating and cooling • Temperature what does it really mean • Heating and cooling with thermal conduction • Thermal energy store | Students will describe and explain the concepts of: P1 Energy • energy changes in a system involving heating, doing work using forces, or doing work using an electric current: calculating the stored energies and energy changes involved • conservation of energy in a closed system, dissipation • power as the rate of transfer of energy • calculating energy efficiency for any energy transfers • renewable and non-renewable energy sources used on Earth, changes in how these are used. |