| Subject | Physics Interpretation of National Curriculum into Year group Endpoints | | |
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| Year | Term 1 | Term 2 | Term 3 |
| 10 | Students will describe and explain the concepts of: P5 Forces • forces and fields: electrostatic, magnetic, gravity • forces as vectors • weight and gravitational field strength • Moments, toppling and centre of mass • calculating work done as force x distance; elastic and inelastic stretching • Hooke's law and elastic potential energy • 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 | Students will describe and explain the concepts of: P5 Forces Momentum and changes in momentum pressure in fluids acts in all directions: variation in Earth's atmosphere with height, with depth for liquids, up- thrust force (qualitative). decelerations and braking distances involved on roads, safety. Impulse P6 Waves amplitude, wavelength, frequency, relating velocity to frequency and wavelength transverse and longitudinal waves electromagnetic waves, velocity in vacuum; waves transferring energy; wavelengths and frequencies from radio to gamma-rays velocities differing between media: absorption, reflection, refraction effects production and detection, by electrical circuits, or by changes in atoms and nuclei uses in the radio, microwave, infra-red, visible, ultra- violet, X-ray and gamma ray regions, hazardous effects on bodily tissues. | Students will describe and explain the concepts of: Revision for, taking and review and intervention after Y10 PPEs |