Revision Guidance Year 10 Foundation

Combined Science Physics May 2024

* Understand the meaning of scalar and vector quantities and know some examples of each.
* Know how to interpret speed – time graphs, understand what information can be obtained from gradient and area calculations.
* Recall and apply the wave equation.
* Measuring the speed of water waves using the ripple tank – must be able to describe the method.
* Be able to label/identify the features of a wave, e.g. wavelength, amplitude, frequency.
* Know the order of the waves on the electromagnetic spectrum, also their uses/dangers.
* Know the difference between transverse and longitudinal waves.
* The structure of the atom and the process of how an atom can become an ion.
* Properties of nuclear radiation.
* Understand what is meant by thinking distance and braking distance and what factors can affect the stopping distance of vehicles.