Revision Guidance Year 10 Higher

Combined Science Physics May 2024

* Understand the meaning of scalar and vector quantities and know some examples of each.
* Know how to interpret velocity – 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.
* Recall and apply the equation for momentum
* Recall and apply the equation for kinetic energy
* Know the similarities and differences between the waves on the electromagnetic spectrum.
* Know the uses and dangers of ionising and non-ionising electromagnetic radiation.
* Understand what is meant by the half-life of a radioisotope and how it can be determined from a decay curve.
* Size of the nucleus and the atom.
* Properties of alpha, beta and gamma radiation.

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