

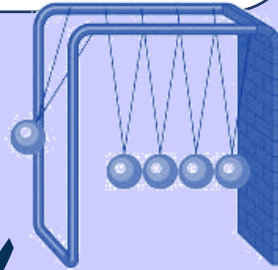


Overview

Students will build on their knowledge gained in year 7 and 10 to develop and deepen their understanding of Physics concepts. These include forces, magnetism and electromagnetism.

Year 11

Physics



Term 3

Students will have the opportunity to revise and complete past exam papers before sitting their final GCSE examinations.

Term 1.

Students will start by revisiting the concepts covered in year 9 about forces. We will then move on to look at how forces can give us an insight into the world of motion and structures. Students will investigate Hooke's Law and apply the formula to new situations. Students will then learn about the physics of motion, calculating velocities and accelerations. Students will learn how to interpret speed/distance time graphs and how to calculate safe stopping distances.

Term 2.

Students will revisit the concept of magnetic fields from KS3 and look at the uses of magnets in the everyday world. Students will then proceed to investigate the electromagnetic effects of a current, investigating the strength of electromagnets. Next, we will look at the construction of motors and transformers using Fleming's left hand rule to predict the motion of a current carrying conductor. Students will learn about the uses of electromagnets in everyday situations e.g. microphones and loudspeakers.

