

# Year 11 - Physics

Year 11 physics is where students begin to refine their understanding of the physics themes they have studied in their high school career, and further extend and challenge themselves with the most difficult concepts in the GCSE course. The work they complete through their five year journey will allow students to leave Rastrick High school as scientifically literate members of society.

Knowledge overview	Topic 1	Topic 2	Topic 3
Topic	Forces in depth	How forces affect motion	Magnetism in depth
Theme	Forces and motion 4	Forces and motion 5	Electromagnetism 7
Overview	In this topic students will look up to the stars to explain how they formed and how their motion can be explained. Students will analyse and critique the evidence put forward to explain the beginnings of the universe and how it will change in the future.	In this topic students will investigate how unbalanced forces can change the motion of an object. Students will apply their skills of using algebraic equations, using line graphs as well and calculating areas so explain how an objects motion can vary.	In this topic students will take an in depth look at magnetism and electromagnetism. Students will use models to represent the ways in which magnetic fields can interact and will use equations to help calculated the forces produced.