Science - Physics

Year 11

What are the aims and intentions of this curriculum?

Please write here

Term	Topics	Knowledge covered	Skills developed	Assessment
Autumn 1	Atoms and radioactivity	Models of the atom, radioactive decay, types of radioactivity, decay equations, half-life, radioactive safety, radioactive uses, nuclear fission and fusion, background radiation	Using radiation safely. Calculations of half life and plotting of graphs.	Mock exams - Biology paper 1 - Chemistry paper 1 - Physics paper 2
Autumn 2				
Spring 1	Space Physics	Solar system, satellites, life cycle of a star, orbital motion, redshift and evidence for the Big Bang theory	Required practical tasks for year 9 topics will be covered and the relevant skills in data collection, analysis, evaluation will be further developed.	Mock exams - Biology paper 2 - Chemistry paper 2 - Physics paper 1
Spring 2	Revision of year 9 and 10 topics New content specific to Physics course.	Energy, Electricity, Magnets and electromagnets, motion Moments, gas pressure and volume, lenses, black body radiation, seismic waves, static electricity	Required practical tasks for year 9 and 10 topics will be covered and the relevant skills in data collection, analysis, evaluation will be further developed.	
Summer 1	Revision (specific to student needs)			