PCHS Curriculum Information - Year 13

Course title: A-Level Physics	Exam board: AQA	Specification code: 7408
How will students be assessed?		

Students will sit three two hour external exams at the end of Year 13. During the course, along with other practical work, students will carry out 12 assessed practicals which will lead to the students being awarded their practical skills endorsement.

Physics Paper 1: (85 marks)

Students will complete short and long answer questions (60 marks) on the topic from sections 1-5 and 6.1. The paper includes multiple choice questions (25 marks).

Physics Paper 2: (85 marks)

Students will complete short and long answer questions (60 marks) on the topic from sections 6.2 and 7 - 8 (the questions may assume knowledge from sections 1 - 6.1). The paper includes 25 multiple choice questions.

Physics Paper 3: (80 marks)

Students will complete 45 marks of long and short answer questions on practical experiments and data analysis, as well as 35 marks of short and long questions from the optional unit, astrophysics

Half term	Ке	y content
	SBA	TAL
1	3.7 Fields and their consequences Fields Gravitational fields Orbits and satellites Electric Fields	3.6.2 Thermal physics Ideal gases Required practical 8 Gas Laws 3.8 Nuclear physics Radioactivity Nuclear Instability
2	3.7 Magnetic Fields Magnetic flux density Moving charges in a magnetic field Magnetic flux and flux linkage Electromagnetic Induction Required practical 10 Magnetic Flux Linkage	3.8 Nuclear physics Nuclear Radius Mass and energy Induced Fission Safety aspects Required Practical 12 Inverse-square law for gamma radiation
3	3.7 Magnetic Fields Alternating currents The operation of a transformer	3.7 Capacitance Parallel Plate Capacitor Energy stored by a capacitor Capacitor charge and discharge

	Required practical 11 Magnetic Flux Linkage	Required Practical 9 Capacitors
4	3.8 Astrophysics	3.8 Astrophysics
	Telescopes	The Hertzsprung-Russell (HR) diagram
	Classification of Stars	Supernovae and neutron stars
		Cosmology and the Dopller effect
5	Revision	Revision