Trilogy: Physics GCSE Overview



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This GCSE course is part way through a change in order. This means that the current year 10 students will be learning different content in year 11 next year, when compared to the content shown now for year 11.

Students will be given a variety of assessments each term to track their progress in literacy (RLITs), practical skills (RPs), application of knowledge through context questions (RCQs) and subject knowledge (EUTs).

In June students will be given an exam that assesses skills, subject knowledge and application of content covered in year 9 as well as year 10. In addition, in January students will be given a mid-year exam that covers the content of the year 9 course and the Autumn term units in year 10.

In November and **March** students will be given a **mock exam** that assesses skills, subject knowledge and application of content covered in years 9 & 10 as well as year 11. The first Mock exam is used to inform predicted grades for the summer.

		Units	Assessment	Units	Assessment
	Autumn	10.1 – Conservation & Dissipation of Energy	End of Unit Test	11.1 – Electric Circuits	End of Unit Test
		Students discover how energy comes in many different stores. They investigate one of the big ideas of physics, that energy is never created or destroyed. They also learn how to calculate how much energy is needed to stretch an elastic band, to get a car moving, and to climb a flight of stairs.	Context Questions	Students investigate what electricity is and how electrical circuits work. They learn how to measure and calculate values for current, potential difference and resistance.	RP: The resistance of a wire RP: Characteristics of electrical components
		10.2 – Electric Circuits	End of Unit Test	11.2 – Domestic Electricity	Context Questions
		Students investigate what electricity is and how electrical circuits work. They learn how to measure and calculate values for current, potential difference and resistance.	of a wire RP: Characteristics of electrical e	Students learn how the National Grid supplies homes with electricity. They investigate alternating and direct current and learn how to calculate the energy use and efficiency of electrical appliances such as kettles and toasters.	

		10.3 – Domestic Electricity	End of Unit Test	11.3 – Electromagnetism	End of Unit test
	Spring	Students learn how the National Grid supplies homes with electricity. They investigate alternating and direct current and learn how to calculate the energy use and efficiency of electrical appliances such as kettles and toasters.	Context Questions	Students investigate the magnetic effects of bar magnets and electrical circuits. Students learn how generators and motors work.	Literacy Task
		10.4 – Radioactivity	End of Unit Test	11.4,5 & 6 – Forces in Balance, Motion, and	End of Unit Test
		Students learn about the discovery of the nucleus and the structure of the atom. They investigate the different kinds of radiation and learn about the	Literacy Task	Forces and Motion	RP: Extension of a
			Students re-visit work undertaken in year 9 and build upon this by investigating acceleration an	Spring	
		uses and effects of radioactive materials.		momentum. They learn about the effects of	RP: Force and Acceleration
				pressure on different surfaces and learn how to use Newton's laws of motion.	
	Summer	10.5 – The Particle Model of Matter	End of Unit Test	Revision and Exam Practice	
		Students investigate the nature of matter. They conduct experiments to find out how matter	RP: Calculating Density		
		changes state and how much energy it takes to change the temperature of different kinds of materials.	Context Questions		