Physics GCSE Overview

toasters.



Year 10	Year 11			
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 context questions (RCQs) and subject knowledge (EUTs).	iteracy (RLITs), practical skills (RPs), application of knowledge through			

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 Literacy Task	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	End of Unit Test	
	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	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	
	10.3 – Domestic Electricity	End of Unit Test	11.3 – Electromagnetism	End of Unit Test	
	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	Context Questions	Students investigate the magnetic effects of bar magnets and electrical circuits. Students learn how generators and motors work.	Literacy Task	

Spring	10.4 – Radioactivity 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 uses and effects of radioactive materials.	End of Unit Test Literacy Task	11.4,5 & 6 – Forces in Balance, Motion, and Forces and Motion Students re-visit work undertaken in year 9 and build upon this by investigating acceleration and momentum. They learn about the effects of pressure on different surfaces and learn how to use Newton's laws of motion.	End of Unit Test RP: Extension of a Spring RP: Force and Acceleration
	10.5 – The Particle Model of Matter	End of Unit Test	11.7 – Forces and Pressure	End of Unit Test
	Students investigate the nature of matter. They conduct experiments to find out how matter changes state and how much energy it takes to change the temperature of different kinds of materials.	RP: Calculating Density Context Questions	Students investigate the factors which change gas pressure, and investigate the links between forces and pressure.	
Summer	10.7 – Light	End of Unit Test	Revision and Exam Practice	
	Students investigate how light behaves and how it interacts with different materials. They will investigate the effects of lenses and mirrors and research the uses of light.	RP: Reflection and Refraction		
	10.8 - Space	End of Unit Test		
	Students study what makes up our solar system, galaxy and universe. They discover the life cycle of a star and learn about how we study space.	Literacy Task		