Physics								
	Autumn 1	Autumn 2	Spring 3	Spring 4	Summer 5	Summer 6		
Year 9	 Topic 3 – The Particle Model of Matter Using kinetic theory to explain the properties of solids, liquids and gases. Calculating the densities of materials. Describing the changes to the internal energy of substances when they are being heated or cooled. Describing and explaining the relationships between temperature, pressure and volume of a gas. 		 Topic 4 – Atomic structure Describing the development of models of the atom. Describing instability of atomic nuclei, radioactive decay and half-life. Describing the properties of nuclear radiation. Writing nuclear decay equations using nuclide notation. Explaining the hazards associated with nuclear radiation. Explaining medical uses of sources of nuclear radiation. Comparing the processes of nuclear fission and nuclear fusion. 		 Topic 1 – Energy Describing systems, energy stores and transfers Calculating power and efficiency. Testing different thermal insulators to reduce heat loss in homes. Considering the advantages and disadvantages of different energy resources used to generate electricity. Using the law of conservation of energy in calculations involving kinetic, gravitational potential and elastic potential energy. 			
	 Assessment Multiple choice question quizzes (MCQs) in the middle of each term. Formal written assessment using past exam questions covering all content covered since the beginning of Year 9 at the end of Term 1. 		 Assessment Multiple choice question quizzes (MCQs) in the middle of each term. Formal written assessment using past exam questions covering all content covered since the beginning of Year 9 at the end of Term 3. 		 Assessment Multiple choice question quizzes (MCQs) in the middle of each term. Formal written assessment using past exam questions covering all content covered since the beginning of Year 9 at end of April/beginning of May. 			

Physics							
	Autumn 1	Autumn 2	Spring 3	Spring 4	Summer 5	Summer 6	
Year 10	 Topic 2 – Electricity Static electricity and electric fields Circuit symbols and diagrams. Electrical current and potential difference. Resistance of components and wires. I-V characteristics Electrical power and energy. Mains electricity in the UK and 		pic 5 – Forces Describing motion of object Types of force and free-book Resultant and resolving fo Newton's laws of motion Weight and terminal veloc Conservation of momentue Work done by forces. Stopping distances Hooke's law and deformat	escribing motion of objects. /pes of force and free-body diagrams. esultant and resolving forces. ewton's laws of motion /eight and terminal velocity. onservation of momentum and impact forces. /ork done by forces.			
			Pressure in fluids.	5		applicationsTransformers	
	 Assessment Multiple choice question quizzes (MCQs) in the middle of each term. Formal written assessment using past exam questions covering all content covered since the beginning of Year 9 at the end of Term 1. 		g (MCQs) in the (MCQs) in the Formal written past exam que content covere	e question quizzes middle of each term. assessment using stions covering all d since the beginning ginning of March.	 Assessment Multiple choice question quizzes (MCQs) in the middle of each term Formal written assessment using past exam questions covering all content covered since the beginni of Year 9 at beginning of May. 		

Physics						
	Autumn 1	Autumn 2	Spring 3	Spring 4	Summer 5	
Year 11	 Topic 7 – Electromagnetism Permanent and induced magnets Electromagnets Magnetic fields Motor effect and its applications Generator effect and its applications Transformers 	 uses and hazards of ele Investigating reflection a Lenses, including drawidescribing the properties 	nce of objects by s of light with their n and absorption of on, detection, properties, ectromagnetic waves. and refraction. ing ray diagrams and es of the images formed. d and seismic waves for	 Topic 8 – Space physics Describing the structure of the Universe. Describing the orbital motion of planets and satellites. Describing the formation, lifecycle and death of stars of different masses. Explain the Doppler Effect. Explain the evidence for the Big Bang theory. 	REVISION	
	 Assessment Multiple choice question quizzes (MCQs) in the middle of each term. Formal written assessment using past exam 		 Assessment Multiple choice question quizzes (MCQs) in the middle of each term. Mock exam paper mid-January. 		 Assessment Mock exam end of April. 	
	questions covering all content covered since the beginning of Year 9 at the end of Term 1.					