Module Title: Forces and static electricity	Module Title: Electricity and electromagnetism	Module Title: Consolidation
Learning Intent for this module: Students will learn apply what they Newton's knowledge of laws of motion to explain how objects can transfer energy and the equations of motion. They investigate how the work done by a force on a spring can lead to elastic deformation. Students will learn how electric charge is a fundamental property of matter everywhere. Understanding the role of conductors and insulators and how to design and construct circuits to see the relationships between current and potential difference in a variety of components. • Forces	Learning Intent for this module: Students will learn about electrical power and energy transferred in circuits. They will apply their knowledge of these circuits to understand the role of mains electricity in our everyday life. Building on work from year 7 students will explain how electromagnetism has many applications. • Electrical Power • Mains electricity • Magnets and electromagnetism-	Learning Intent for this Module: Students are provided the opportunity to revisit and review key ideas and provide revision, consolidation and examination practise prior to examination. • Energy • Waves • Atomic structure • Electromagnetic spectrum • Electricity • Particles of matter • Electromagnetism
• Current Electricity Key Content to be learned: Students will learn about the work that has to be done in stretching a spring or an elastic object by Hooke's law practical. The equation of motion builds on their year 10 knowledge of forces and motion when they will study momentum. Students will learn about how the properties of electrical circuits including current, potential difference and resistance. They will also learn the difference between series and parallel circuits.	Key content to be learned: Students will learn about electrical power and energy transferred in circuits. They will apply this to mains electricity and the national grid. Students will expand their knowledge of the magnets and electromagnetism to explain how many things that include loudspeaker.	Key content to be learned: Students will retrieve and practice application of their Physics knowledge by completing exam preparation and revision.

Prior Knowledge	Prior Knowledge	Prior Knowledge
Students should know Newton's laws of motion (from y10 Module 3). Students should be able to (from y7) identify different components, recall the definitions of current and potential difference. Be able to draw how to set up series and parallel circuits.	Student should know apply the knowledge from module 1 of current electricity together with magnets and their properties from y7 and energy transfers from year 9.	Students will have prior knowledge of all topics revised this module.
Key tasks for this module:	Key tasks for this module:	Key tasks for this module:
Mock 1	Mock 2	Past Papers
Forces	Electricity	GCSE Exams