Exam Board: AQA (8463)

Year 10

Year Group	Term	Module/Topic/Theme/	Content	Assessment Content
10	1	**Energy**	**Energy** • Energy stores and systems • Kinetic and potential energy stores • Specific heat capacity • Conservation of energy and power • Reducing unwanted energy transfers • Efficiency	**Mid-Point Assessments** designed to draw out misconceptions and allow for reteaching of content if required. Whole Class Feedback sheet completed and given to students
	2	**Energy**	**Energy** • Energy resources and their uses • Wind, solar and geothermal • Hydro-electricity, waves and tides • Biofuels and non-renewables • Trends in energy resource use	Mixture of Mid-Point Assessment and End of Unit Synoptic tests as detailed above **AND** **End of Unit SYNOPTIC tests**. These will include a section on Core Knowledge and vocabulary for the current topic as well as terms from previous topics. The second half of the assessment will be APPLICATION based and consist of past exam paper questions.
	3	**Electricity**	**Electricity** • Current and circuit symbols • Current, resistance and potential difference • **Required practical activity 3**	**Mid-Point Assessments** designed to draw out

			• Resistors • **Required practical activity 4** • Series and parallel circuits • Direct and alternating potential difference • Mains electricity	misconceptions and allow for reteaching of content if required. Whole Class Feedback sheet completed and given to students
	4	**Electricity**	• Power • Energy transfers in everyday appliances • The National Grid • Static charge • Electric fields	Mixture of Mid-Point Assessment and End of Unit Synoptic tests as detailed above
	5	**Magnetism**	**<u>Magentism</u>** • Poles of a magnet • Magnetic fields • Permanent and induced magnetism • Electric motors • The motor effect • Electromagnetism • Fleming's left-hand rule (HT only) Electric motors (HT only)	**Mid-Point Assessments** designed to draw out misconceptions and allow for reteaching of content if required. Whole Class Feedback sheet completed and given to students **PPEs** are also likely in this term
	6	**Electromagnetism**	• Loudspeakers • Induced potential • Uses of the generator effect • Microphones • Transformers	**End of Unit SYNOPTIC tests**. These will include a section on Core Knowledge and vocabulary for the current topic as well as terms from previous topics. The second half of the assessment will be APPLICATION

Year 11

Year Group	Term	Module/Topic/Theme/	Content	Assessment Content
11	1	**Forces**	**Forces** • Scalar and vector quantities • Contact and non-contact forces • Gravity • Resultant forces • Work done and energy transfer • Forces and elasticity • **Required practical activity 6** • Moments, levers and gears • Pressure in a fluid • Pressure in a fluid 2 (HT only) • Atmospheric pressure	**Mid-Point Assessments** designed to draw out misconceptions and allow for reteaching of content if required. Whole Class Feedback sheet completed and given to students
	2	**Forces**	• Distance and displacement • Speed • Velocity • The distance–time relationship • Acceleration • Newton's First Law • Newton's Second Law • **Required practical activity 7** • Newton's Third Law • Stopping distance Reaction time • Factors affecting braking distance • Momentum (HT ONLY)	Mixture of Mid-Point Assessment and End of Unit Synoptic tests as detailed above **PPEs** also likely in this term

	3	**Waves**	**<u>Waves</u>** • Transverse and longitudinal waves • Properties of waves • **Required practical activity 8** • Reflection of waves • **Required practical activity 9** • Sound waves • Waves for detection and exploration • Types of electromagnetic waves	Mixture of Mid-Point Assessment and End of Unit Synoptic tests as detailed above
	4	**Waves**	• Properties of electromagnetic waves 1 • **Required practical activity 10** • Properties of electromagnetic waves 2 • Uses and applications of electromagnetic waves • Lenses • Visible light • Black body radiation	
	5	**Revision and Re teaching based on feedback from tests and PPEs**		**GCSE EXAMS**
	6	**Revision and Re teaching based on feedback from tests and PPEs**		**GCSE EXAMS**