

	Term	Topic	Learning Outcomes	Assessment
Year 9	Term 3	SP1 Motion (Paper 1)	<p>To know about:</p> <ul style="list-style-type: none"> ✓ SP1a – Vectors and Scalars ✓ SP1b – Distance/time graphs ✓ SP1c – Acceleration ✓ SP1d – Velocity/time graphs 	SP1 – End of topic test
		SP2 Motion and Forces (Paper 1)	<ul style="list-style-type: none"> ✓ SP1 – Revision activities ✓ SP2a – Resultant forces ✓ SP2b – Newton's First Law ✓ SP2c – Mass and weight ✓ SP2d – Newton's Second Law ✓ SP2d – Core practical: Investigating acceleration ✓ SP2e – Newton's Third Law ✓ SP2f – Momentum ✓ SP2g – Stopping distances ✓ SP2h – Braking distance and energy ✓ SP2i – Crash hazards ✓ SP2 – Revision activities 	SP2 – End of topic test

	Term	Topic	Learning Outcomes	Assessment
Year 10	Term 1	SP3 Conservation of Energy (Paper 1)	<p>To know about:</p> <ul style="list-style-type: none"> ✓ SP3a – Energy stores and transfers ✓ SP3b – Energy efficiency ✓ SP3c – Keeping warm ✓ SP3d – Stored energies ✓ SP3e – Non-renewable resources ✓ SP3f – Renewable resources <p>✓ SP3 – Revision activities</p>	SP3 – End of topic test
		SP4 Waves (Paper 1)	<p>To know about:</p> <ul style="list-style-type: none"> ✓ SB4a – Describing waves ✓ SB4b – Wave speeds ✓ SB4b – Core practical: Investigating waves ✓ SB4c – Refraction ✓ SB4d – Waves crossing boundaries ✓ SB4e – Ears and hearing ✓ Sb4f – Ultrasound ✓ SB4g – Infrasound <p>✓ SP4 – Revision activities</p>	SP4 – End of topic test

	Term	Topic	Learning Outcomes	Assessment
Year 10				
	Term 2	SP5 Light and the Electromagnetic Spectrum (Paper1)	<p>To know about:</p> <ul style="list-style-type: none"> ✓ SP5a – Ray diagrams ✓ SP5a – Core practical: Investigating refraction ✓ SP5b – Colour ✓ SP5c – Lenses ✓ SP5d – Electromagnetic waves ✓ SP5e – The electromagnetic spectrum ✓ SP5f – Using the long wavelengths ✓ SP5g – Radiation and temperature ✓ SP5g – Core practical: Investigating radiation ✓ SP5h – Using the short wavelengths ✓ SP5i – EM radiation dangers <p>SP5 – Revision activities</p>	SP5 – End of topic test



SP6 Radioactivity (Paper 1)

To know about:

- ✓ SP6a – Atomic models
- ✓ SP6b – Inside atoms
- ✓ SP6c – Electrons and orbits
- ✓ SP6d – Background radiation
- ✓ SP6e – Types of radiation
- ✓ SP6f – Radioactive decay
- ✓ SP6g – half-life
- ✓ SP6h – Using radioactivity
- ✓ SP6i – Dangers of radioactivity
- ✓ SP6j – Radioactivity in medicine
- ✓ SP6k – Nuclear energy
- ✓ SP6l – Nuclear fission
- ✓ SP6m – Nuclear fusion

- ✓ SP6 – Revision activities

SP6 – End of topic test

	Term	Topic	Learning Outcomes	Assessment
Year 10	Term 3	SP7 Astronomy (Paper 1)	<p>To know about:</p> <ul style="list-style-type: none"> ✓ SP7a – The Solar System ✓ SP7b – Gravity and orbits ✓ SP7c – Life cycle of stars ✓ SP7d – Red-shift ✓ SP7e – Origins of the Universe 	SP7 – End of topic test
			<ul style="list-style-type: none"> ✓ SP7 – Revision activities ✓ SP1-7 – Year 10 exam revision activities 	End of Year 10 Exam

End of year assessment

This will include topics SP1-7

Misconceptions will be addressed as part of the end of year assessment review process

	Term	Topic	Learning Outcomes	Assessment
Year 11	Term 1	SP8 Energy – Forces Doing Work (Paper 2)	<p>To know about:</p> <ul style="list-style-type: none"> ✓ SP8a – Work and power ✓ SP9a – Objects affecting each other ✓ SP9b – Vector diagrams ✓ SP9c – Rotational forces 	<p>SP8/9 – End of topic test</p> <p>Year 11 Mock exam</p>
		SP9 Forces and their Effects (Paper 2)	<ul style="list-style-type: none"> ✓ SP8/9 – Revision activities ✓ SP1-7 – Year 11 mock exam revision activities 	

SP10 Electricity and
Circuits
(Paper 2)

SP11 Static Electricity
(Paper 2)

To know about:

- ✓ SP10a – Electrical circuits
- ✓ SP10b – Current and potential difference
- ✓ SP10c – Current, charge and energy
- ✓ SP10d – Resistance
- ✓ SP10e – More about resistance
- ✓ SP10e – Core practical: Investigating resistance
- ✓ SP10f – Transferring energy
- ✓ SP10g – Power
- ✓ SP10h – Transferring energy by electricity
- ✓ SP10i – Electrical safety

- ✓ SP11a – Charges and static electricity
- ✓ SP11b – Dangers and uses of static electricity
- ✓ SP11c – Electric fields

- ✓ SP10/11 – Revision activities

SP10/11 – End of topic test

Year 11 Mock exams

This will include topics SP1-7

Misconceptions will be addressed as part of the end of year assessment review process

	Term	Topic	Learning Outcomes	Assessment
Year 11		SP10 Electricity and Circuits (Paper 2)	<p>To know about:</p> <ul style="list-style-type: none"> ✓ SP10a – Electrical circuits ✓ SP10b – Current and potential difference ✓ SP10c – Current, charge and energy ✓ SP10d – Resistance ✓ SP10e – More about resistance ✓ SP10e – Core practical: Investigating resistance ✓ SP10f – Transferring energy ✓ SP10g – Power ✓ SP10h – Transferring energy by electricity ✓ SP10i – Electrical safety 	SP10/11 – End of topic test
	Term 2	SP11 Static Electricity (Paper 2)	<ul style="list-style-type: none"> ✓ SP11a – Charges and static electricity ✓ SP11b – Dangers and uses of static electricity ✓ SP11c – Electric fields ✓ SP10/11 – Revision activities 	

		<p>SP12 Magnetism and the Motor Effect (Paper 2)</p> <p>SP13 Electromagnetic Induction (Paper 2)</p>	<p>To know about:</p> <ul style="list-style-type: none">✓ SP12a – Magnets and magnetic fields✓ SP12b – Electromagnetism✓ SP12c – Magnetic forces <ul style="list-style-type: none">✓ SP13a – Electromagnetic induction✓ SP13b – The national grid✓ SP13c – Transformers and energy ✓ SP12/13 – Revision activities	<p>SP12/13 – End of topic test</p>
--	--	--	---	------------------------------------

	Term	Topic	Learning Outcomes	Assessment
Year 11	Term 3	SP14 Particle Model (Paper 2)	<ul style="list-style-type: none"> ✓ SP14a – Particles and density ✓ SP14a – Core practical: Investigating densities ✓ SP14b – Energy and changes of state ✓ SP14c – Energy calculations ✓ SP14c – Core practical: Investigating water ✓ SP14d – Gas temperature and pressure ✓ SP14e – Gas pressure and volume 	SP12/13 – End of topic test
		SP15 Forces and Matter (Paper2)	<ul style="list-style-type: none"> ✓ SP15a – Bending and stretching ✓ SP15b – Extension and energy transfers ✓ SP15b – Core practical: Investigating springs ✓ SP15c – Pressure in fluids ✓ SP15d – Pressure and upthrust <ul style="list-style-type: none"> ✓ SP14/15 – Revision activities 	

Exam dates:Paper 1 exam dates:

Biology – 19th May 2021

Chemistry – 24th May 2021

Physics – 27th May 2021

Paper 2 exam dates:

Biology – 14th June 2021

Chemistry – 17th June 2021

Physics – 22nd June 2021