

Year 11 Revision Schedule 2024-25

Subject/Course:	GCSE Combined Science (Physics) – Foundation Tier
Student Name:	

	Торіс	Key knowledge/skills/questions	Resources/activities/links
T Monday Janua		 Recall of core knowledge in topic Use and application of core knowledge Waves I: recall and use of wave terminology drawing and labelling diagrams of transverse and longitudinal waves recall, use and application of wave equation understanding of Required Practical set up understanding and description of measurement techniques that reduce uncertainties and errors Knowledge and use of terms – resolution, accuracy, error, uncertainty 	 'Red' topics - review tasks: Relearn material using new sources, eg revision guide, BBC Bitesize Compile knowledge organiser, using your class notes, revision guides, textbooks, BBC Bitesize (see www.hayestl.com for knowledge organiser tips) Add to your lesson notes using revision guides, textbooks, BBC Bitesize 'Red' topics - practice tasks: Low demand knowledge checking questions from, eg, revision guide or textbooks or the relevant topics from Www.educake.co.uk 'Core coverage' - review tasks: Cornell notes successive summarisation of topics (see www.hayestl.com for Cornell notes tips) Mind maps linking concepts and knowledge within the topic and with other topics (see www.hayestl.com for mind mapping tips) Elaboration and extension of notes, using other sources, eg, revision guides, textbooks, BBC Bitesize

				 'Core coverage' – practice tasks: Low demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from Www.educake.co.uk) Medium demand knowledge and application questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions from www.physicsandmathstutor.com and www.aqa.org.uk BBC Bitesize links for Waves I: https://www.bbc.co.uk/bitesize/guides/zwkn2nb/revision/1
Week 2	Monday 27 th January	Student-led approach: Your next two weakest topics / sub-topics on Paper 2 (identified by you as 'red' on your Paper 2 learning checklist) <i>Core coverage</i> : Waves II (6.6.2) – types, properties and uses of EM waves, reflection and refraction, RP9 (refraction), production of radio waves, emission and absorption of IR, RP10 (Absorption of IR)	 Recall of core knowledge in topic Use and application of core knowledge Waves II: Recall names, typical frequencies and wavelengths of parts of the EM spectrum Know and describe uses and dangers of parts of the EM spectrum Explain why some EM waves are more suitable for communication than others Draw and label ray diagrams for reflection and refraction Describe production and reception of radio waves Understanding of Required Practical set up Describe how the nature of materials affects its absorption or emission of IR waves 	 'Red' topics - review tasks: Relearn material using new sources, eg revision guide, BBC Bitesize Compile knowledge organiser, using your class notes, revision guides, textbooks, BBC Bitesize (see www.hayestl.com for knowledge organiser tips) Add to your lesson notes using revision guides, textbooks, BBC Bitesize 'Red' topics - practice tasks: Low demand knowledge checking questions from, eg, revision guide or textbooks or the relevant topics from Www.educake.co.uk 'Core coverage' - review tasks: Cornell notes successive summarisation of topics (see www.hayestl.com for Cornell notes tips) Mind maps linking concepts and knowledge within the topic and with other topics (see www.hayestl.com for mind mapping tips) Elaboration and extension of notes, using other sources, eg, revision guides, textbooks, BBC Bitesize 'Core coverage' - practice tasks: Low demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from Www.educake.co.uk)

				 Medium demand knowledge and application questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions from www.physicsandmathstutor.com and www.aqa.org.uk BBC Bitesize links for Waves II: https://www.bbc.co.uk/bitesize/guides/z2xjdxs/revision/1 https://www.bbc.co.uk/bitesize/guides/ztpm7p3/revision/1 https://www.bbc.co.uk/bitesize/guides/ztpm7p3/revision/1
Week 3	Monday 3 rd February	Student-led approach: Your next two weakest topics / sub-topics on Paper 2 (identified by you as 'red' or 'amber' on your Paper 2 learning checklist) <i>Core coverage</i> : Forces I (6.5.1, 6.5.2, 6.5.3, 6.5.6 (part)) – weight, adding and subtracting forces, work done by a force, stretching and compression forces, energy stored by elastic material, RP6 (Force and extension), velocity and acceleration, motion graphs	 Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts Forces I: Recall and use the equation to calculate weight Determine and describe the resultant force acting on an object Recall and use the equation to calculate work done Recall and use the equation to calculate the extension of an object caused by a force Recall and use the equation to calculate the energy stored in by an elastic object Understanding of Required Practical set up Recall and use the equations to calculate speed, acceleration (the 'suvat' equations) Draw and interpret distance-time graphs and velocity-time graphs Determine the gradient of graphs, including using the tangent method Understanding of Required Practical set up 	 'Red' topics – review tasks: Relearn material using new sources, eg revision guide, BBC Bitesize Compile knowledge organiser, using your class notes, revision guides, textbooks, BBC Bitesize (see www.hayestl.com for knowledge organiser tips) Add to your lesson notes using revision guides, textbooks, BBC Bitesize 'Red' topics – practice tasks: Low demand knowledge checking questions from, eg, revision guide or textbooks or the relevant topics from Www.educake.co.uk 'Core coverage' – review tasks: Cornell notes successive summarisation of topics (see www.hayestl.com for Cornell notes tips) Mind maps linking concepts and knowledge within the topic and with other topics (see www.hayestl.com for mind mapping tips) Elaboration and extension of notes, using other sources, eg, revision guide or textbooks, BBC Bitesize 'Core coverage' – practice tasks: Low demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from Www.educake.co.uk) Medium demand knowledge and application questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions

				fuene
				from www.physicsandmathstutor.com and
				<u>www.aqa.org.uk</u>
				BBC Bitesize links for Forces I:
				https://www.bbc.co.uk/bitesize/guides/zskn2nb/revision/1
				https://www.bbc.co.uk/bitesize/guides/zskn2nb/revision/1
				https://www.bbc.co.uk/bitesize/guides/z232k2p/revision/1
				https://www.bbc.co.uk/bitesize/guides/z9hk3k7/revision/1
				https://www.bbc.co.uk/bitesize/guides/z2wy6yc/revision/1
				https://www.bbc.co.uk/bitesize/guides/zc7q4qt/revision/1
		Student-led approach:		'Red' topics – review tasks:
	Monday 10 th	Your two weakest topics / sub-	Recall of core knowledge in topic	Relearn material using new sources, eg revision guide,
	February	topics on Paper 1 (identified	Use and application of core knowledge	BBC Bitesize
		by you as 'red' on your Paper 1		Compile knowledge organiser, using your class notes,
		learning checklist)		revision guides, textbooks, BBC Bitesize (see
				www.hayestl.com for knowledge organiser tips)
		Core coverage:		 Add to your lesson notes using revision guides,
		Energy (6.1.1, 6.1.2, 6.1.3) –	Energy:	textbooks, BBC Bitesize
		energy stores and transfers,	Recall the eight energy stores	
		conservation of energy,	Recall the four energy pathways	'Red' topics – practice tasks:
		thermal energy transfer, RP1	Describe energy transfers between	 Low demand knowledge checking questions from, eg,
		(specific heat capacity) RP2	objects in terms of systems, stores and	revision guide or textbooks or the relevant topics from
		(thermal insulation), power,	pathways	Www.educake.co.uk
		efficiency, energy resources,	Understanding energy transfers in the	
		choices about energy resources	context of conservation of energy	'Core coverage' – review tasks:
4			Describe methods for reducing wasted	Cornell notes successive summarisation of topics (see
Sel 1			energy transfers	www.hayestl.com for Cornell notes tips)
Week			Recall and use the equations to calculate	 Mind maps linking concepts and knowledge within the
			efficiency	topic and with other topics (see <u>www.hayestl.com</u> for
			Recall and use the equations to calculate	mind mapping tips)
			power	• Elaboration and extension of notes, using other sources,
			Recall and use the equation to calculate	eg, revision guides, textbooks, BBC Bitesize
			the energy stored in by a moving object	
			• Recall and use the equation to calculate	'Core coverage' – practice tasks:
			the change in energy stored by an	 Low demand knowledge checking questions (eg, from
			object moving vertically in a	revision guide or textbooks or the relevant topics from
			gravitational field	Www.educake.co.uk)
			• Recall and use the equation to calculate	Medium demand knowledge and application questions
			the energy stored in by an elastic object	from, eg, revision work books
			• Recall and use the equation to calculate	High demand knowledge, application and analysis
			the change in temperature of an object	questions from, eg, revision workbooks; exam questions
			due to a change in the thermal energy	from www.physicsandmathstutor.com and
			stored by the object	www.aga.org.uk
LI		1		

			 Understanding of Required Practical set up Identify renewable and non-renewable energy resources Explain choices in use of energy resources by countries 	BBC Bitesize links for Energy: https://www.bbc.co.uk/bitesize/guides/z8hsrwx/revision/1 https://www.bbc.co.uk/bitesize/guides/zp8jtv4/revision/1 https://www.bbc.co.uk/bitesize/guides/z2gjtv4/revision/1 https://www.bbc.co.uk/bitesize/guides/zchgdxs/revision/1 https://www.bbc.co.uk/bitesize/guides/z3nktv4/revision/1
Week 5	Half Term Monday 17 th February	Student-led approach: Your next two weakest topics / sub-topics on Paper 1 (identified by you as 'red' on your Paper 1 learning checklist) <i>Core coverage</i> : Particle Model (6.3.1, 6.3.2, 6.3.3) – density, changes in state, RP5 (Density), internal energy, specific heat, latent heat, cooling / heating curves, gas pressure and temperature	 Recall of core knowledge in topic Use and application of core knowledge Particle Model: Recall and use the equation to calculate density Convert between units of different magnitude Describe states of matter in terms of particle arrangement, energy and properties Describe changes of state in terms of changes in particle energy and attraction Understanding energy transfers in the context of conservation of energy Recall and describe the components of internal energy Understand how the components of energy change during heating and changes of state Sketch, understand and interpret cooling and heating curves Describe and explain how the motion of gas particles gives rise to pressure exerted by a gas Describe and explain in terms of particle motion how changes to the temperature of a gas affects the pressure it exerts Understanding of Required Practical set up 	 'Red' topics - review tasks: Relearn material using new sources, eg revision guide, BBC Bitesize Compile knowledge organiser, using your class notes, revision guides, textbooks, BBC Bitesize (see www.hayestl.com for knowledge organiser tips) Add to your lesson notes using revision guides, textbooks, BBC Bitesize 'Red' topics - practice tasks: Low demand knowledge checking questions from, eg, revision guide or textbooks or the relevant topics from Www.educake.co.uk 'Core coverage' - review tasks: Cornell notes successive summarisation of topics (see www.hayestl.com for Cornell notes tips) Mind maps linking concepts and knowledge within the topic and with other topics (see www.hayestl.com for mind mapping tips) Elaboration and extension of notes, using other sources, eg, revision guides, textbooks or the relevant topics from Www.educake.co.uk) 'Core coverage' - practice tasks: Low demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from Www.educake.co.uk) Medium demand knowledge and application questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision work books; exam questions from www.physicsandmathstutor.com and www.aqa.org.uk

				https://www.bbc.co.uk/bitesize/guides/zqjy6yc/revision/1 https://www.bbc.co.uk/bitesize/guides/zwwfxfr/revision/1 https://www.bbc.co.uk/bitesize/guides/z2xcfcw/revision/1 https://www.bbc.co.uk/bitesize/guides/zyjvtv4/revision/1
Week 6	Monday 24 th February	Student-led approach: Your next two weakest topics / sub-topics on Paper 1 (identified by you as 'red' on your Paper 1 learning checklist) <i>Core coverage</i> : Electricity I (6.2.1, 6.2.2) – circuit symbols, charge, current, potential difference, resistance, RP3 (Factors affecting resistance), RP4 (Current-potential difference characteristics), series and parallel circuits, circuit rules	 Recall of core knowledge in topic Use and application of core knowledge Electricity I: Draw and interpret circuit diagrams using circuit symbols Define current, potential difference, resistance, power Recall and use the equation that links charge, current and time Recall and use the equation that links resistance, potential difference and current Describe and explain how resistance arises in circuit components Describe and explain the factors that affect resistance Identify and describe series and parallel sections of circuits Recall and use the 'circuit rules' to interpret circuit diagrams and make calculations Understanding of Required Practical set up 	 'Red' topics - review tasks: Relearn material using new sources, eg revision guide, BBC Bitesize Compile knowledge organiser, using your class notes, revision guides, textbooks, BBC Bitesize (see www.hayestl.com for knowledge organiser tips) Add to your lesson notes using revision guides, textbooks, BBC Bitesize 'Red' topics - practice tasks: Low demand knowledge checking questions from, eg, revision guide or textbooks or the relevant topics from Www.educake.co.uk 'Core coverage' - review tasks: Cornell notes successive summarisation of topics (see www.hayestl.com for Cornell notes tips) Mind maps linking concepts and knowledge within the topic and with other topics (see www.hayestl.com for mind mapping tips) Elaboration and extension of notes, using other sources, eg, revision guides, textbooks or the relevant topics from Www.educake.co.uk) Medium demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from Www.educake.co.uk) Medium demand knowledge and application questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions from www.physicsandmathstutor.com and www.aqa.org.uk

	Monday 3rd	<i>Student-led approach</i> : Your two weakest topics / sub-	Recall of core knowledge in topic	 'Red' topics – review tasks: Relearn material using new sources, eg revision guide,
	March	topics on Paper 2 (identified by you as 'red' on your Paper 2 learning checklist) <i>Core coverage</i> :	Use and application of core knowledge	 BBC Bitesize Compile knowledge organiser, using your class notes, revision guides, textbooks, BBC Bitesize (see <u>www.hayestl.com</u> for knowledge organiser tips) Add to your lesson notes using revision guides,
		Waves I (6.6.1) – wave description and terminology, wave properties, wave equation, RP8 (Measurement of	 Waves I: recall and use of wave terminology drawing and labelling diagrams of transverse and longitudinal waves 	 textbooks, BBC Bitesize '<i>Red' topics – practice tasks:</i> Low demand knowledge checking questions from, eg,
		waves).	 recall, use and application of wave equation understanding of Required Practical set up understanding and description of 	 revision guide or textbooks or the relevant topics from Www.educake.co.uk 'Core coverage' – review tasks: Cornell notes successive summarisation of topics (see
Week 7			 understanding and description of measurement techniques that reduce uncertainties and errors Knowledge and use of terms – resolution, accuracy, error, uncertainty 	 Content notes successive summarisation of topics (see <u>www.hayestl.com</u> for Cornell notes tips) Mind maps linking concepts and knowledge within the topic and with other topics (see <u>www.hayestl.com</u> for mind mapping tips) Elaboration and extension of notes, using other sources, eg, revision guides, textbooks, BBC Bitesize
				 'Core coverage' - practice tasks: Low demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from Www.educake.co.uk) Medium demand knowledge and application questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions from www.physicsandmathstutor.com and www.aqa.org.uk
				BBC Bitesize links for Waves I: https://www.bbc.co.uk/bitesize/guides/zwkn2nb/revision/1 https://www.bbc.co.uk/bitesize/guides/z3yq4qt/revision/1 https://www.bbc.co.uk/bitesize/guides/zgnnh39/revision/1
Week 8	Monday 10 th March	Student-led approach: Your next two weakest topics / sub-topics on Paper 2 (identified by you as 'red' on your Paper 2 learning checklist)	 Recall of core knowledge in topic Use and application of core knowledge 	 'Red' topics – review tasks: Relearn material using new sources, eg revision guide, BBC Bitesize

		Core coverage: Waves II (6.6.2) – types, properties and uses of EM waves, refraction, RP9 (refraction), production of radio waves, emission and absorption of IR, RP10 (Absorption of IR)	 Waves II: Recall names, typical frequencies and wavelengths of parts of the EM spectrum Know and describe uses and dangers of parts of the EM spectrum Explain why some EM waves are more suitable for communication than others Draw and label ray diagrams for refraction Describe production and reception of radio waves Understanding of Required Practical set up Describe how the nature of materials affects its absorption or emission of IR waves 	 Compile knowledge organiser, using your class notes, revision guides, textbooks, BBC Bitesize (see www.hayestl.com for knowledge organiser tips) Add to your lesson notes using revision guides, textbooks, BBC Bitesize 'Red' topics – practice tasks: Low demand knowledge checking questions from, eg, revision guide or textbooks or the relevant topics from Www.educake.co.uk 'Core coverage' – review tasks: Cornell notes successive summarisation of topics (see www.hayestl.com for Cornell notes tips) Mind maps linking concepts and knowledge within the topic and with other topics (see www.hayestl.com for mind mapping tips) Elaboration and extension of notes, using other sources, eg, revision guide or textbooks or the relevant topics from Www.educake.co.uk) Medium demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from Www.educake.co.uk) Medium demand knowledge and application questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions from www.aqa.org.uk BBC Bitesize links for Waves II: https://www.bbc.co.uk/bitesize/guides/z2xjdxs/revision/1 https://www.bbc.co.uk/bitesize/guides/z2ndxs/revision/1 https://www.bbc.co.uk/bitesize/guides/z2ndxs/revision/1
		Student-led approach:		'Red' topics – review tasks:
	Monday 17 th	Your next two weakest topics /	Recall of core knowledge in topic	Relearn material using new sources, eg revision guide, BEC Bitaging
6 >	March	sub-topics on Paper 2	Use and application of core knowledge	BBC Bitesize
Week		(identified by you as 'red' on		Compile knowledge organiser, using your class notes, revision guides textbacks PPC Piterize (see
Ň		your Paper 2 learning checklist)		revision guides, textbooks, BBC Bitesize (see
-				www.hayestl.com for knowledge organiser tips)
		Core coverage:	Former T.	Add to your lesson notes using revision guides, textheolie, PBC Pitering
			Forces I:	textbooks, BBC Bitesize

		Forces I (6.5.1, 6.5.2, 6.5.3, 6.5.6 (part)) – weight, adding and subtracting forces, work	 Recall and use the equation to calculate weight Determine and describe the resultant force acting on an object 	 'Red' topics - practice tasks: Low demand knowledge checking questions from, eg, revision quide or toythooks or the relevant topics from
		done by a force, stretching and compression forces, energy stored by elastic material, RP6 (Force and extension), velocity and acceleration, motion graphs	 force acting on an object Recall and use the equation to calculate work done Recall and use the equation to calculate the extension of an object caused by a force Recall and use the equation to calculate the energy stored in by an elastic object Understanding of Required Practical set up Recall and use the equations to calculate speed, acceleration (the 'suvat' equations) Draw and interpret distance-time graphs and velocity-time graphs Determine the gradient of graphs, including using the tangent method Understanding of Required Practical set up 	 revision guide or textbooks or the relevant topics from Www.educake.co.uk 'Core coverage' - review tasks: Cornell notes successive summarisation of topics (see www.hayestl.com for Cornell notes tips) Mind maps linking concepts and knowledge within the topic and with other topics (see www.hayestl.com for mind mapping tips) Elaboration and extension of notes, using other sources, eg, revision guides, textbooks, BBC Bitesize 'Core coverage' - practice tasks: Low demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from Www.educake.co.uk) Medium demand knowledge and application questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions from www.physicsandmathstutor.com and www.aqa.org.uk
				BBC Bitesize links for Forces I: https://www.bbc.co.uk/bitesize/guides/zskn2nb/revision/1 https://www.bbc.co.uk/bitesize/guides/zskn2nb/revision/1 https://www.bbc.co.uk/bitesize/guides/z232k2p/revision/1 https://www.bbc.co.uk/bitesize/guides/z9hk3k7/revision/1 https://www.bbc.co.uk/bitesize/guides/z2wy6yc/revision/1 https://www.bbc.co.uk/bitesize/guides/z2wy6yc/revision/1
Week 10	Monday 24 th March	Student-led approach: Your next two weakest topics / sub-topics on Paper 1 (identified by you as 'amber' on your Paper 1 learning checklist)	 Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts 	 'Amber' topics - review tasks: Blank page retrieval, followed by supplementary notes and links (see www.hayestl.com for blank page retrieval tips) Elaboration and extension of notes, using other sources, eg, revision guides, textbooks, BBC Bitesize Cornell notes successive summarisation of topics, including 'flash card' summary (see www.hayestl.com for Cornell notes tips)
			Electricity II:	

		Electricity II (6.2.3, 6.2.4, 6.2.5) – direct and alternating	Describe differences between direct and alternating current	 Dual coding of key ideas or diagrams (see <u>www.hayestl.com</u> for dual coding tips)
		current, safety in mains	 Draw and label the connections in a UK 	www.hayesti.com for dual county upsy
		electricity systems, electric	mains plug	'Amber' topics – practice tasks:
		power and energy transfers in	 Describe the operation of a fuse and a 	 Medium demand knowledge and application questions
		circuits, National Grid	circuit breaker	from, eg, revision work books
		,	• Identify safety measures in UK electricity	Exam questions completed to time
			supplies	• Exam paper and test paper question analysis (TEEPEE
			Define electric power	model)
			Recall and use the equation that links	
			power, current and potential difference	'Core coverage' – review tasks:
			Recall and use the equation that links power current and registrance	 Cornell notes successive summarisation of topics (see <u>www.hayestl.com</u> for Cornell notes tips)
			power, current and resistanceDescribe the heating effect of current	 Mind maps linking concepts and knowledge within the
			 Describe the main features of the 	topic and with other topics (see <u>www.hayestl.com</u> for
			National Grid	mind mapping tips)
			Explain the function of step-up and step-	• Elaboration and extension of notes, using other sources,
			down transformers within the National Grid	eg, revision guides, textbooks, BBC Bitesize
				'Core coverage' – practice tasks:
				 Low demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from
				Www.educake.co.uk)
				 Medium demand knowledge and application questions
				from, eg, revision work books
				High demand knowledge, application and analysis
				questions from, eg, revision workbooks; exam questions
				from www.physicsandmathstutor.com and
				www.aqa.org.uk
				BBC Bitesize links for Electricity II: https://www.bbc.co.uk/bitesize/guides/zw8n2nb/revision/1
				https://www.bbc.co.uk/bitesize/guides/zw8n2nb/revision/1
		Student-led approach:		Amber' topics – review tasks:
	Monday 31 st	Your next two weakest topics /	Recall of core knowledge in topic	 Blank page retrieval, followed by supplementary notes
	March	sub-topics on Paper 1	Use and application of core knowledge	and links (see www.hayestl.com for blank page retrieval
11		(identified by you as 'amber' on		tips)
¥		your Paper 1 learning checklist)	contexts	• Elaboration and extension of notes, using other sources,
Week			Analysis of novel contexts	eg, revision guides, textbooks, BBC Bitesize
>				 Cornell notes successive summarisation of topics, including 'flash card' summary (see <u>www.hayestl.com</u> for
		Core coverage:		Cornell notes tips)
			Atomic structure:	
L				

	Atomic Structure (6 A 1	Duran and label a diagona of an atom I Dural and in a of here ideas in I (
	Atomic Structure (6.4.1, 6.4.2, 6.4.3) – structure of the atom, development of atomic model, properties of nuclear radiation, nuclear decay equations, determining half- life, background radiation, contamination and irradiation	 Draw and label a diagram of an atom Describe the properties of electrons, protons and neutrons Describe the main points in the development of the atomic model Describe the plum pudding model, the 'gold foil scattering experiment' and why the latter caused a change our model of the atom Understand and describe the properties of alpha, beta and gamma radiation, particularly penetration and ionising power Draw and interpret half life graphs and data tables Determine half life from a graph Describe causes and consequences of background radiation, contamination and irradiation, and safety precautions when using radioactive materials Core coverage' – practice tasks: Cornell notes successive summarisation of topics (se www.hayestl.com for Cornell notes tips) Mind maps linking concepts and knowledge within 1 topic and with other topics (see www.hayestl.com 1 mind mapping tips) Elaboration and extension of notes, using other sou eg, revision guides, textbooks, BBC Bitesize Low demand knowledge and application question from, eg, revision work books High demand knowledge and application and analysis questions from, eg, revision work books; exam quest from www.aqa.org.uk BBC Bitesize links for Atomic structure: https://www.bbc.co.uk/bitesize/guides/zpchy/irevision https://www.bbc.co.uk/bitesize/guides/zpchy/irevision https://www.bbc.co.uk/bitesize/guides/zpchy/irevision https://www.bbc.co.uk/bitesize/guides/zpchy/irevision https://www.bbc.co.uk/bitesize/guides/zpchy/irevision https://www.bbc.co.uk/bitesize/guides/zpchy/irevision https://www.bbc.co.uk/bitesize/guides/zpchy/grevision 	PEE see the for urces, om om ons stions $\frac{1}{n/1}$ $\frac{n/1}{n/1}$
			<u>n/1</u>
	Student-led approach:	Amber' topics – review tasks:	
CEasterAMonday 7th ApriAA	Your next two weakest topics /	 Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Blank page retrieval, followed by supplementary no and links (see <u>www.hayestl.com</u> for blank page retrieval, followed by supplementary no and links (see <u>www.hayestl.com</u> for blank page retrieval) 	

 Analysis of novel contexts Core coverage: Forces II (6.5.4, 6.5.5, 6.5.6 (part), 6.5.7) – Newton's laws of motion, RP7 (force and acceleration), braking Calculate braking distances and use concept of work to determine braking distances Interpret stopping distance and thinking distance graphs and data tables Understanding of Required Practical set up 	 Elaboration and extension of notes, using other sources, eg, revision guides, textbooks, BBC Bitesize Cornell notes successive summarisation of topics, including 'flash card' summary (see www.hayestl.com for Cornell notes tips) Dual coding of key ideas or diagrams (see www.hayestl.com for dual coding tips) 'Amber' topics – practice tasks: Medium demand knowledge and application questions from, eg, revision work books Exam questions completed to time Exam paper and test paper question analysis (TEEPEE model) 'Core coverage' – review tasks: Cornell notes successive summarisation of topics (see www.hayestl.com for Cornell notes tips) Mind maps linking concepts and knowledge within the topic and with other topics (see www.hayestl.com for mind mapping tips) Elaboration and extension of notes, using other sources, eg, revision guides, textbooks, BBC Bitesize 'Core coverage' – practice tasks: Low demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from Www.educake.co.uk) Medium demand knowledge and application questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions from www.aqa.org.uk BBC Bitesize links for Forces II: https://www.bbc.co.uk/bitesize/guides/zgv797h/revision/1

		Student lad annuach		Amber' topics review tockey
	Monday 14 th April	Student-led approach: Your next two weakest topics / sub-topics on Paper 2 (identified by you as 'amber' on your Paper 2 learning checklist) Particle Model (6.3.1, 6.3.2, 6.3.3) – density, changes in state, RP5 (Density), internal energy, specific heat, latent	 Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts Particle Model: Recall and use the equation to calculate density Convert between units of different 	 Amber' topics - review tasks: Blank page retrieval, followed by supplementary notes and links (see <u>www.hayestl.com</u> for blank page retrieval tips) Elaboration and extension of notes, using other sources, eg, revision guides, textbooks, BBC Bitesize Cornell notes successive summarisation of topics, including 'flash card' summary (see <u>www.hayestl.com</u> for Cornell notes tips) Dual coding of key ideas or diagrams (see <u>www.hayestl.com</u> for dual coding tips)
Week 13		heat, cooling / heating curves, gas pressure and temperature	 magnitude Describe states of matter in terms of particle arrangement, energy and properties Describe changes of state in terms of changes in particle energy and attraction Understanding energy transfers in the context of conservation of energy Recall and describe the components of internal energy Understand how the components of energy change during heating and changes of state Sketch, understand and interpret cooling and heating curves Describe and explain how the motion of gas particles gives rise to pressure exerted by a gas Describe and explain in terms of particle motion how changes to the temperature of a gas affects the pressure it exerts Understanding of Required Practical set up 	 'Amber' topics – practice tasks: Medium demand knowledge and application questions from, eg, revision work books Exam questions completed to time Exam paper and test paper question analysis (TEEPEE model) 'Core coverage' – review tasks: Cornell notes successive summarisation of topics (see www.hayestl.com for Cornell notes tips) Mind maps linking concepts and knowledge within the topic and with other topics (see www.hayestl.com for mind mapping tips) Elaboration and extension of notes, using other sources, eg, revision guides, textbooks, BBC Bitesize 'Core coverage' – practice tasks: Low demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from Www.educake.co.uk) Medium demand knowledge and application questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions from www.physicsandmathstutor.com and www.aqa.org.uk BBC Bitesize links for Particle Model: https://www.bbc.co.uk/bitesize/guides/zqiy6yc/revision/1 https://www.bbc.co.uk/bitesize/guides/z2xcfcw/revision/1

				https://www.bbc.co.uk/bitesize/guides/zyjvtv4/revision/1
Week 14	Monday 21 st April	Student-led approach: Your next two weakest topics / sub-topics on Paper 1 (identified by you as 'green' on your Paper 1 learning checklist) <i>Core coverage</i> : Electricity I & II (6.2.1, 6.2.2, 6.2.3, 6.2.4, 6.2.5) – circuit symbols, charge, current, potential difference, resistance, RP3 (Factors affecting resistance), RP4 (Current-potential difference characteristics), series and parallel circuits, circuit rules, direct and alternating current, safety in mains electricity systems, electric power and energy transfers in circuits, National Grid	 Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts Linking and synthesis of knowledge between topics Electricity I & II: Draw and interpret circuit diagrams using circuit symbols Define current, potential difference, resistance, power Recall and use the equation that links charge, current and time Recall and use the equation that links resistance, potential difference and current Describe and explain how resistance arises in circuit components Describe and explain the factors that affect resistance Identify and describe series and parallel sections of circuits Recall and use the 'circuit rules' to interpret circuit diagrams and make calculations Understanding of Required Practical set up Describe differences between direct and alternating current Draw and label the connections in a UK mains plug Describe the operation of a fuse and a circuit breaker 	 'Green' topics - review tasks: Blank page retrieval, followed by supplementary notes and links (see www.hayestl.com for blank page retrieval tips) Elaboration and extension of notes, using other sources, eg, revision guides, textbooks, BBC Bitesize Cornell notes successive summarisation of topics, including 'flash card' summary (see www.hayestl.com for Cornell notes tips) Dual coding of key ideas or diagrams (see www.hayestl.com for dual coding tips) 'Green' topics - practice tasks: High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions from www.physicsandmathstutor.com and www.aqa.org.uk Exam questions completed to time Exam paper and test paper question analysis (TEEPEE model) 'Core coverage' - review tasks: Cornell notes successive summarisation of topics (see www.hayestl.com for Cornell notes tips) Mind maps linking concepts and knowledge within the topic and with other topics (see www.hayestl.com for mind mapping tips) Elaboration and extension of notes, using other sources, eg, revision guides, textbooks, BBC Bitesize 'Core coverage' - practice tasks: Low demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from Www.educake.co.uk) Medium demand knowledge and application questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions from, eg, revision workbooks

				for an and the strength of the state of the
			Identify safety measures in UK electricity	from www.physicsandmathstutor.com and
			supplies	www.aqa.org.uk
			Define electric power	
			Recall and use the equation that links	
			power, current and potential difference	BBC Bitesize links for Electricity I & II:
			Recall and use the equation that links	https://www.bbc.co.uk/bitesize/guides/zgvq4qt/revision/1
			power, current and resistance	https://www.bbc.co.uk/bitesize/guides/zw8n2nb/revision/1
			 Describe the heating effect of current Describe the main features of the 	https://www.bbc.co.uk/bitesize/guides/zqf6msg/revision/1
			Describe the main features of the National Grid	
			Explain the function of step-up and step-	
			down transformers within the National Grid	
		Student-led approach:		'Green' topics – review tasks:
	Monday	Your next two weakest topics /	Recall of core knowledge in topic	 Blank page retrieval, followed by supplementary notes
	28 th April	sub-topics on Paper 2	 Use and application of core knowledge 	and links (see <u>www.hayestl.com</u> for blank page retrieval
	20 April	(identified by you as 'green' on	 Application of knowledge to novel 	tips)
		your Paper 2 learning checklist)	contexts	 Elaboration and extension of notes, using other sources,
		your ruper z learning checkisty	Analysis of novel contexts	eg, revision guides, textbooks, BBC Bitesize
			 Linking and synthesis of knowledge 	 Cornell notes successive summarisation of topics,
			between topics	including 'flash card' summary (see <u>www.hayestl.com</u> for
				Cornell notes tips)
				 Dual coding of key ideas or diagrams (see
		Core coverage:		www.hayestl.com for dual coding tips)
		Magnetism &	Magnetism & electromagnetism:	
		electromagnetism (6.7.1,	Understand permanent and induced	'Green' topics – practice tasks:
15		6.7.2, 6.7.3) – magnetic fields	magnetism	High demand knowledge, application and analysis
X		and forces, electromagnetism	 Draw, describe and interpret magnetic 	questions from, eg, revision workbooks; exam questions
Week			field diagrams	from www.physicsandmathstutor.com and
3			Describe magnetic forces, repulsion and	www.aqa.org.uk Exam questions completed to time
			attraction	Exam paper and test paper question analysis (TEEPEE
			• Describe how an electromagnet can be	model)
			built and controlled	
			Know some uses for electromagnets	'Core coverage' – review tasks:
				Cornell notes successive summarisation of topics (see
				www.hayestl.com for Cornell notes tips)
				Mind maps linking concepts and knowledge within the tenis and with attractive (and many leagest) and for
				topic and with other topics (see <u>www.hayestl.com</u> for
				mind mapping tips)
				Elaboration and extension of notes, using other sources,
				eg, revision guides, textbooks, BBC Bitesize
				'Core coverage' – practice tasks:

				 Low demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from Www.educake.co.uk) Medium demand knowledge and application questions from, eg, revision work books High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions from www.physicsandmathstutor.com and www.aqa.org.uk BBC Bitesize links for Magnetism & electromagnetism: https://www.bbc.co.uk/bitesize/guides/zpt9v9q/revision/1 https://www.bbc.co.uk/bitesize/guides/zg43y4j/revision/1
Week 16	Monday 29 April	Student-led approach: Revisit all topics / sub-topics on Paper 1 , focusing on accuracy and consistency of recall, and improving technique	 Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts Linking and synthesis of knowledge between topics Exam technique 	 2 x whole Paper 1 exam paper practice (in conditions similar to exam room), exam papers from https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/assessment-resources?f.Resource+type%7C6=Question+papers Mark papers and analyse (use TEEPEE model) Diagnose further improvement tasks Complete improvement tasks Q&A flash cards on Paper 1 topics (to promote accurate and consistent recall)
Week 17	Monday 5 th May	Student-led approach: Revisit all topics / sub-topics on Paper 1 , focusing on accuracy and consistency of recall, and improving technique	 Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts Linking and synthesis of knowledge between topics Exam technique 	 2 x whole Paper 1 exam paper practice (in conditions similar to exam room), exam papers from https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/assessment-resources?f.Resource+type%7C6=Question+papers Mark papers and analyse (use TEEPEE model) Diagnose further improvement tasks Complete improvement tasks Q&A flash cards on Paper 1 topics (to promote accurate and consistent recall)
Week 18	Monday 12 th May	<i>Student-led approach</i> : Revisit all topics / sub-topics on Paper 2 , focusing on accuracy and consistency of recall, and improving technique	 Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts 	 2 x whole Paper 2 exam paper practice (in conditions similar to exam room), exam papers from https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/assessment-resources?f.Resource+type%7C6=Question+papers Mark papers and analyse (use TEEPEE model)

Week 19	Monday 19 th May	Thursday 22 nd May, am - Paper 1 exam	 Linking and synthesis of knowledge between topics Exam technique 	 Diagnose further improvement tasks Complete improvement tasks Q&A flash cards on Paper 2 topics (to promote accurate and consistent recall) Q&A flash cards on Paper 1 topics (to promote accurate and consistent recall)
Week 20	Half-term Monday 26 th May	Student-led approach: Revisit all topics / sub-topics on Paper 2 , focusing on accuracy and consistency of recall, and improving technique	 Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts Linking and synthesis of knowledge between topics Exam technique 	 2 x whole Paper 2 exam paper practice (in conditions similar to exam room), exam papers from https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/assessment-resources?f.Resource+type%7C6=Question+papers Mark papers and analyse (use TEEPEE model) Diagnose further improvement tasks Complete improvement tasks Q&A flash cards on Paper 2 topics (to promote accurate and consistent recall)
Week 21	Monday 2 nd June	Student-led approach: Revisit all topics / sub-topics on Paper 2 , focusing on accuracy and consistency of recall, and improving technique	 Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts Linking and synthesis of knowledge between topics Exam technique 	 2 x whole Paper 2 exam paper practice (in conditions similar to exam room), exam papers from https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/assessment-resources?f.Resource+type%7C6=Question+papers Mark papers and analyse (use TEEPEE model) Diagnose further improvement tasks Complete improvement tasks Q&A flash cards on Paper 2 topics (to promote accurate and consistent recall)
Week 22	Monday 9 th June	<i>Student-led approach</i> : Revisit all topics / sub-topics on Paper 2 , focusing on accuracy and consistency of recall, and improving technique	 Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts Linking and synthesis of knowledge between topics Exam technique 	 Q&A flash cards on Paper 2 topics (to promote accurate and consistent recall) Go on holiday after the last exam

ŝ		Monday 16 th June, am -	•	•
ek 2	Monday 16 th June	Paper 2 exam		
We				