



Year 11 Revision Schedule 2025-26 – The Run in

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

Week		Topic	Key knowledge/skills/questions	Resources/activities/links
1	Monday 23 February	<p><i>Student-led approach:</i> Your next two weakest topics / sub-topics on Paper 2 (identified by you as 'red' or 'amber' on your Paper 2 learning checklist)</p> <p><i>Core coverage:</i> Forces I (6.5.1, 6.5.2, 6.5.3, 6.5.6 (part)) – weight, adding and subtracting forces, adding and resolving forces using vector diagrams, free body diagrams, work done by a force, stretching and compression forces, energy stored by elastic material, RP6 (Force and extension), velocity and acceleration, motion graphs</p>	<ul style="list-style-type: none"> • Recall of core knowledge in topic • Use and application of core knowledge • Application of knowledge to novel contexts • Analysis of novel contexts <p>Forces I:</p> <ul style="list-style-type: none"> • Recall and use the equation to calculate weight • Determine and describe the resultant force acting on an object • Draw and interpret free-body force diagrams • Use scale vector diagrams to add forces that are not co-linear and determine their resultant • Determine the perpendicular components of a force using mathematical and scale drawing methods • Recall and use the equation to calculate work done 	<p><i>'Red' topics – review tasks:</i></p> <ul style="list-style-type: none"> • 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 <p><i>'Red' topics – practice tasks:</i></p> <ul style="list-style-type: none"> • Low demand knowledge checking questions from, eg, revision guide or textbooks or the relevant topics from Www.educake.co.uk <p><i>'Core coverage' – review tasks:</i></p> <ul style="list-style-type: none"> • 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 <p><i>'Core coverage' – practice tasks:</i></p>

			<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 <p>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</p>
2	Monday 2 March	<p><i>Student-led approach:</i> Your two weakest topics / sub-topics on Paper 1 (identified by you as 'red' on your Paper 1 learning checklist)</p> <p><i>Core coverage:</i> Energy (6.1.1, 6.1.2, 6.1.3) – energy stores and transfers, conservation of energy, thermal energy transfer, RP1 (specific heat capacity) RP2 (thermal insulation), power, efficiency, energy resources, choices about energy resources</p>	<ul style="list-style-type: none"> Recall of core knowledge in topic Use and application of core knowledge <p>Energy:</p> <ul style="list-style-type: none"> Recall the eight energy stores Recall the four energy pathways Describe energy transfers between objects in terms of systems, stores and pathways Understanding energy transfers in the context of conservation of energy Describe methods for reducing wasted energy transfers Recall and use the equations to calculate efficiency Recall and use the equations to calculate power 	<p><i>'Red' topics – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Red' topics – practice tasks:</i></p> <ul style="list-style-type: none"> Low demand knowledge checking questions from, eg, revision guide or textbooks or the relevant topics from Www.educake.co.uk <p><i>'Core coverage' – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Core coverage' – practice tasks:</i></p>

			<ul style="list-style-type: none"> Recall and use the equation to calculate the energy stored in by a moving object Recall and use the equation to calculate the change in energy stored by an object moving vertically in a gravitational field Recall and use the equation to calculate the energy stored in by an elastic object Recall and use the equation to calculate the change in temperature of an object due to a change in the thermal energy stored by the object Understanding of Required Practical set up Identify renewable and non-renewable energy resources Explain choices in use of energy resources by countries 	<ul style="list-style-type: none"> 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 <p>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/z2qjtv4/revision/1 https://www.bbc.co.uk/bitesize/guides/zchgdxs/revision/1 https://www.bbc.co.uk/bitesize/guides/z3nktv4/revision/1</p>
3	Monday 9 March	<p><i>Student-led approach:</i> Your next two weakest topics / sub-topics on Paper 1 (identified by you as 'red' on your Paper 1 learning checklist)</p> <p><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</p>	<ul style="list-style-type: none"> Recall of core knowledge in topic Use and application of core knowledge <p>Particle Model:</p> <ul style="list-style-type: none"> 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 	<p><i>'Red' topics – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Red' topics – practice tasks:</i></p> <ul style="list-style-type: none"> Low demand knowledge checking questions from, eg, revision guide or textbooks or the relevant topics from Www.educake.co.uk <p><i>'Core coverage' – review tasks:</i></p> <ul style="list-style-type: none"> 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

			<ul style="list-style-type: none"> 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 <p>Understanding of Required Practical set up</p>	<p><i>'Core coverage' – practice tasks:</i></p> <ul style="list-style-type: none"> 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 <p>BBC Bitesize links for Particle Model: https://www.bbc.co.uk/bitesize/guides/zqjy6yc/revision/1 https://www.bbc.co.uk/bitesize/guides/zwwxfxr/revision/1 https://www.bbc.co.uk/bitesize/guides/z2xcfcw/revision/1 https://www.bbc.co.uk/bitesize/guides/zyjvtv4/revision/1</p>
4	<p>Monday 16 March</p>	<p><i>Student-led approach:</i> Your next two weakest topics / sub-topics on Paper 1 (identified by you as 'red' on your Paper 1 learning checklist)</p> <p><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</p>	<ul style="list-style-type: none"> Recall of core knowledge in topic Use and application of core knowledge <p>Electricity I:</p> <ul style="list-style-type: none"> 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 	<p><i>'Red' topics – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Red' topics – practice tasks:</i></p> <ul style="list-style-type: none"> Low demand knowledge checking questions from, eg, revision guide or textbooks or the relevant topics from www.educake.co.uk <p><i>'Core coverage' – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Core coverage' – practice tasks:</i></p>

			<ul style="list-style-type: none"> Recall and use the 'circuit rules' to interpret circuit diagrams and make calculations Understanding of Required Practical set up 	<ul style="list-style-type: none"> 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 <p>BBC Bitesize links for Electricity I: https://www.bbc.co.uk/bitesize/guides/zqvg4qt/revision/1 https://www.bbc.co.uk/bitesize/guides/zqf6msg/revision/1</p>
5	Monday 23 March	<p><i>Student-led approach:</i> Your two weakest topics / sub-topics on Paper 2 (identified by you as 'red' on your Paper 2 learning checklist)</p> <p><i>Core coverage:</i> Waves I (6.6.1) – wave description and terminology, wave properties, wave equation, RP8 (Measurement of waves). Sound waves, methods for measuring speed of sound</p>	<ul style="list-style-type: none"> Recall of core knowledge in topic Use and application of core knowledge <p>Waves I:</p> <ul style="list-style-type: none"> 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 <p>Describe methods for measuring the speed of sound</p>	<p><i>'Red' topics – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Red' topics – practice tasks:</i></p> <ul style="list-style-type: none"> Low demand knowledge checking questions from, eg, revision guide or textbooks or the relevant topics from Www.educake.co.uk <p><i>'Core coverage' – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Core coverage' – practice tasks:</i></p> <ul style="list-style-type: none"> 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

				<ul style="list-style-type: none"> High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions from www.physicsandmathstutor.com and www.aqa.org.uk <p>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/zqnnh39/revision/1</p>
6	EASTER Monday 30 March	<p><i>Student-led approach:</i> Your next two weakest topics / sub-topics on Paper 2 (identified by you as 'red' on your Paper 2 learning checklist)</p> <p><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)</p>	<ul style="list-style-type: none"> Recall of core knowledge in topic Use and application of core knowledge <p>Waves II:</p> <ul style="list-style-type: none"> 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 <p>Describe how the nature of materials affects its absorption or emission of IR waves</p>	<p><i>'Red' topics – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Red' topics – practice tasks:</i></p> <ul style="list-style-type: none"> Low demand knowledge checking questions from, eg, revision guide or textbooks or the relevant topics from Www.educake.co.uk <p><i>'Core coverage' – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Core coverage' – practice tasks:</i></p> <ul style="list-style-type: none"> 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

				<p>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/zqnnh39/revision/1</p>
7	<p>EASTER Monday 6 April</p>	<p><i>Student-led approach:</i> Your next two weakest topics / sub-topics on Paper 2 (identified by you as 'red' on your Paper 2 learning checklist)</p> <p><i>Core coverage:</i> Forces I (6.5.1, 6.5.2, 6.5.3, 6.5.6 (part)) – weight, adding and subtracting forces, adding and resolving forces using vector diagrams, free body diagrams, work done by a force, stretching and compression forces, energy stored by elastic material, RP6 (Force and extension), velocity and acceleration, motion graphs</p>	<ul style="list-style-type: none"> Recall of core knowledge in topic Use and application of core knowledge <p>Forces I:</p> <ul style="list-style-type: none"> Recall and use the equation to calculate weight Determine and describe the resultant force acting on an object Draw and interpret free-body force diagrams Use scale vector diagrams to add forces that are not co-linear and determine their resultant Determine the perpendicular components of a force using mathematical and scale drawing methods 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 	<p><i>'Red' topics – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Red' topics – practice tasks:</i></p> <ul style="list-style-type: none"> Low demand knowledge checking questions from, eg, revision guide or textbooks or the relevant topics from Www.educake.co.uk <p><i>'Core coverage' – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Core coverage' – practice tasks:</i></p> <ul style="list-style-type: none"> 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 <p>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</p>

			<ul style="list-style-type: none"> Determine the gradient of graphs, including using the tangent method <p>Understanding of Required Practical set up</p>	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
8	Monday 13 April	<p><i>Student-led approach:</i> Your next two weakest topics / sub-topics on Paper 1 (identified by you as 'amber' on your Paper 1 learning checklist)</p> <p><i>Core coverage:</i> Electricity II (6.2.3, 6.2.4, 6.2.5) – direct and alternating current, safety in mains electricity systems, electric power and energy transfers in circuits, National Grid</p>	<ul style="list-style-type: none"> Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts <p>Electricity II:</p> <ul style="list-style-type: none"> 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 Identify safety measures in UK electricity supplies Define electric power Recall and use the equation that links power, current and potential difference Recall and use the equation that links power, current and resistance Describe the heating effect of current Describe the main features of the National Grid <p>Explain the function of step-up and step-down transformers within the National Grid</p>	<p><i>'Amber' topics – review tasks:</i></p> <ul style="list-style-type: none"> 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) <p><i>'Amber' topics – practice tasks:</i></p> <ul style="list-style-type: none"> Medium demand knowledge and application questions from, eg, revision work books Exam questions completed to time Exam paper and test paper question analysis (TEEPPEE model) <p><i>'Core coverage' – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Core coverage' – practice tasks:</i></p> <ul style="list-style-type: none"> 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/zqf6msg/revision/1
9	Monday 20 April	<p><i>Student-led approach:</i> Your next two weakest topics / sub-topics on Paper 1 (identified by you as 'amber' on your Paper 1 learning checklist)</p> <p><i>Core coverage:</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</p>	<ul style="list-style-type: none"> Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts <p>Atomic structure:</p> <ul style="list-style-type: none"> 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 <p>Describe causes and consequences of background radiation, contamination and irradiation, and safety precautions when using radioactive materials</p>	<p><i>Amber' topics – review tasks:</i></p> <ul style="list-style-type: none"> 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) <p><i>'Amber' topics – practice tasks:</i></p> <ul style="list-style-type: none"> Medium demand knowledge and application questions from, eg, revision work books Exam questions completed to time Exam paper and test paper question analysis (TEEPPEE model) <p><i>'Core coverage' – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Core coverage' – practice tasks:</i></p> <ul style="list-style-type: none"> 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

				<p>BBC Bitesize links for Atomic structure: https://www.bbc.co.uk/bitesize/guides/zpctjty/revision/1 https://www.bbc.co.uk/bitesize/guides/z964y4j/revision/1 https://www.bbc.co.uk/bitesize/guides/zxbnh39/revision/1 https://www.bbc.co.uk/bitesize/guides/zp4vfcw/revision/1 https://www.bbc.co.uk/bitesize/guides/zpkbv9g/revision/1</p>
10	Monday 27 April	<p><i>Student-led approach:</i> Your next two weakest topics / sub-topics on Paper 2 (identified by you as 'amber' on your Paper 2 learning checklist)</p> <p><i>Core coverage:</i> Forces II (6.5.4, 6.5.5, 6.5.6 (part), 6.5.7) – Newton's laws of motion, braking, momentum and conservation of momentum</p>	<ul style="list-style-type: none"> Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts <p>Forces II:</p> <ul style="list-style-type: none"> Recall and use Newton's laws of motion to describe scenarios involving forces Define and use inertia Calculate braking distances and use concept of work to determine braking distances Interpret stopping distance and thinking distance graphs and data tables Define momentum and conservation of momentum Recall and use equation to calculate momentum Calculate unknown quantities using conservation of momentum Describe safety features that utilise changes in momentum <p>Understanding of Required Practical set up</p>	<p><i>Amber' topics – review tasks:</i></p> <ul style="list-style-type: none"> 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) <p><i>Amber' topics – practice tasks:</i></p> <ul style="list-style-type: none"> Medium demand knowledge and application questions from, eg, revision work books Exam questions completed to time Exam paper and test paper question analysis (TEEPPEE model) <p><i>'Core coverage' – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Core coverage' – practice tasks:</i></p> <ul style="list-style-type: none"> 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

				<p>from www.physicsandmathstutor.com and www.aga.org.uk</p> <p>BBC Bitesize links for Forces II: https://www.bbc.co.uk/bitesize/guides/zgv797h/revision/1 https://www.bbc.co.uk/bitesize/guides/zc9bv9q/revision/1 https://www.bbc.co.uk/bitesize/guides/zc7q4qt/revision/1</p>
11	Monday 4 May	<p><i>Student-led approach:</i> Your next two weakest topics / sub-topics on Paper 2 (identified by you as 'amber' on your Paper 2 learning checklist)</p> <p>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</p>	<ul style="list-style-type: none"> Recall of core knowledge in topic Use and application of core knowledge Application of knowledge to novel contexts Analysis of novel contexts <p>Particle Model:</p> <ul style="list-style-type: none"> 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 	<p><i>Amber' topics – review tasks:</i></p> <ul style="list-style-type: none"> 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) <p><i>'Amber' topics – practice tasks:</i></p> <ul style="list-style-type: none"> Medium demand knowledge and application questions from, eg, revision work books Exam questions completed to time Exam paper and test paper question analysis (TEEPPEE model) <p><i>'Core coverage' – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Core coverage' – practice tasks:</i></p> <ul style="list-style-type: none"> 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

			<p>temperature of a gas affects the pressure it exerts</p> <p>Understanding of Required Practical set up</p>	<ul style="list-style-type: none"> High demand knowledge, application and analysis questions from, eg, revision workbooks; exam questions from www.physicsandmathstutor.com and www.aqa.org.uk <p>BBC Bitesize links for Particle Model: https://www.bbc.co.uk/bitesize/guides/zqjy6yc/revision/1 https://www.bbc.co.uk/bitesize/guides/zwwwfxfr/revision/1 https://www.bbc.co.uk/bitesize/guides/z2xcfcw/revision/1 https://www.bbc.co.uk/bitesize/guides/zyjvtv4/revision/1</p>
12	Monday 11 May	<p><i>Student-led approach:</i> Your next two weakest topics / sub-topics on Paper 1 (identified by you as 'green' on your Paper 1 learning checklist)</p> <p><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</p>	<ul style="list-style-type: none"> 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 <p>Electricity I & II:</p> <ul style="list-style-type: none"> 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 	<p><i>'Green' topics – review tasks:</i></p> <ul style="list-style-type: none"> 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) <p><i>'Green' topics – practice tasks:</i></p> <ul style="list-style-type: none"> 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 (TEEPPEE model) <p><i>'Core coverage' – review tasks:</i></p> <ul style="list-style-type: none"> 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 <p><i>'Core coverage' – practice tasks:</i></p> <ul style="list-style-type: none"> Low demand knowledge checking questions (eg, from revision guide or textbooks or the relevant topics from www.educake.co.uk)

			<ul style="list-style-type: none"> 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 Identify safety measures in UK electricity supplies Define electric power Recall and use the equation that links power, current and potential difference Recall and use the equation that links power, current and resistance Describe the heating effect of current Describe the main features of the National Grid <p>Explain the function of step-up and step-down transformers within the National Grid</p>	<ul style="list-style-type: none"> 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 <p>BBC Bitesize links for Electricity I & II: https://www.bbc.co.uk/bitesize/guides/zgvg4qt/revision/1 https://www.bbc.co.uk/bitesize/guides/zw8n2nb/revision/1 https://www.bbc.co.uk/bitesize/guides/zqf6msg/revision/1</p>
13	Monday 18 May	<p><i>Student-led approach:</i> Your next two weakest topics / sub-topics on Paper 2 (identified by you as 'green' on your Paper 2 learning checklist)</p> <p><i>Core coverage:</i> Magnetism & electromagnetism (6.7.1, 6.7.2, 6.7.3) – magnetic fields and forces, electromagnetism, force on a conductor, the motor effect</p>	<ul style="list-style-type: none"> 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 <p>Magnetism & electromagnetism:</p> <ul style="list-style-type: none"> Understand permanent and induced magnetism Draw, describe and interpret magnetic field diagrams Describe magnetic forces, repulsion and attraction Describe how an electromagnet can be built and controlled Know some uses for electromagnets 	<p><i>'Green' topics – review tasks:</i></p> <ul style="list-style-type: none"> 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) <p><i>'Green' topics – practice tasks:</i></p> <ul style="list-style-type: none"> 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 (TEEPPEE model) <p><i>'Core coverage' – review tasks:</i></p>

			<ul style="list-style-type: none"> Describe the magnetic field around a current carrying wire, using the right-hand grip rule Understand and describe using Fleming's left hand rule how the interaction of current carrying wire and a permanent magnetic field may result in a force and motion Use the equation which links force, current, magnetic field strength and wire length <p>Describe the motor effect and the operation of simple electric motors and loudspeakers</p>	<ul style="list-style-type: none"> 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 <p><i>'Core coverage' – practice tasks:</i></p> <ul style="list-style-type: none"> 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 <p>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 https://www.bbc.co.uk/bitesize/guides/zw7897h/revision/1</p>
14	HALF TERM Monday 25 May	<i>Student-led approach:</i> Revisit all topics / sub-topics on Paper 1 , focusing on accuracy and consistency of recall, and improving technique	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 2 x whole Paper 1 exam paper practice (in conditions similar to exam room), exam papers from https://www.aqa.org.uk/subjects/science/qcse/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 <p>Q&A flash cards on Paper 1 topics (to promote accurate and consistent recall)</p>
15	Monday 1 June	Tuesday 2nd June, am - Paper 1 exam		Q&A flash cards on Paper 1 topics (to promote accurate and consistent recall)
16	Monday 8 June			<ul style="list-style-type: none"> 2 x whole Paper 2 exam paper practice (in conditions similar to exam room), exam papers from https://www.aqa.org.uk/subjects/science/qcse/physics-

				8463/assessment-resources?f.Resource+type%7C6=Question+papers <ul style="list-style-type: none"> • 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)
17	Monday 15 June	Monday 15th June, am - Paper 2 exam		Q&A flash cards on Paper 2 topics (to promote accurate and consistent recall)
18	Monday 22 June			