Curriculum Plan	Subject	Physics	Year	12
Spring 1	**W/C 10th January**	**W/C 17th January**	**W/C 24th January**	
How you will access home learning	**You should check TEAMS at the start of your lesson. Here your teacher will give you instructions on how to access the work for this lesson. This will include: If and when you should join a live teams meeting, tasks to complete and links online learning resources. If a lesson PowerPoint is required for your work, this will be saved in the files section of the team.**			
How you be able to interact with your teacher and gain feedback on your work	**Teachers will be able to communicate over the MS Teams chat function, the SMHW chat function or via email. If you are accessing the lesson via Teams transmission you will be allowed to communicate with other students using the TEAMS chat where appropriate.**			
Retrieval How we will help you to recall previously learnt knowledge	Each lesson will include a retrieval quiz. This quiz will primarily be on information from the previous lesson but can include questions from previous topics as the teacher feels is required.	Each lesson will include a retrieval quiz. This quiz will primarily be on information from the previous lesson but can include questions from previous topics as the teacher feels is required.	Each lesson will include a retrieval quiz. This quiz will primarily be on information from the previous lesson but can include questions from previous topics as the teacher feels is required.	
New Learning What you will be learning about this week	**This week you will be starting the Materials topic;** • **Recap the definitions and calculation of density from GCSE** • **Describe "upthrust" and the Archimedes Principle** • **Describe the difference between laminar and turbulent flow, including being able to correctly**	**This week we will be learning about Viscosity;** • **Describe the key terms "Viscosity" and "Terminal Velocity"** • **Describe and use "Stoke's Law"** • **Use what we have learned to derive an expression for the terminal velocity of a spherical object falling in a**	**This week we will be learning about "Hooke's Law" and "Young's Modulus"** • **Recap "Hooke's law" and "Elastic Potential" from GCSE** • **Describe the key terms "Stress" "Strain" and "Young's Modulus"**	

		represent such flow in a diagram	**fluid and use this expression to plan an experiment to find the viscosity of a fluid.**	• **Calculate Young's Modulus for a material with associated uncertainty**
	How we will teach you the new knowledge or ideas	Use your A level textbook that has been issued to you. Reading through the relevant pages for a lesson help you learn the key points from that lesson. Your teacher will set practice activities, such as quick check questions and exam style questions, as part of each lesson.	Use your A level textbook that has been issued to you. Reading through the relevant pages for a lesson help you learn the key points from that lesson. Your teacher will set practice activities, such as quick check questions and exam style questions, as part of each lesson.	Use your A level textbook that has been issued to you. Reading through the relevant pages for a lesson help you learn the key points from that lesson. Your teacher will set practice activities, such as quick check questions and exam style questions, as part of each lesson.
	Activities that will help you learn and practice what you've been taught	Summarisation of revision notes into flashcards and practicing exam questions are strongly recommended. Model examples of flashcards and exam questions with answers can be found at "physicsandmathstutor.com"	Summarisation of revision notes into flashcards and practicing exam questions are strongly recommended. Model examples of flashcards and exam questions with answers can be found at "physicsandmathstutor.com"	Summarisation of revision notes into flashcards and practicing exam questions are strongly recommended. Model examples of flashcards and exam questions with answers can be found at "physicsandmathstutor.com"
	What you can do if you are stuck	If you are stuck, you can contact your physics teacher over SMHW, TEAMS or email and they will respond promptly. You can also use SENECA learning for an alternative description of key ideas you might find useful. In addition, where possible, teachers will record their lessons on MS Teams which may allow you an alternative teaching method for the key ideas being taught.		

		W/C 31st January	W/C 7th February	N/A
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How you be able to interact with your teacher and gain feedback on your work		**Teachers will be able to communicate over the MS Teams chat function, the SMHW chat function or via email. If you are accessing the lesson via Teams transmission you will be allowed to communicate with other students using the TEAMS chat where appropriate.**		
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New Learning	What you will be learning about this week	**This week you will be learning about the use of Stress vs Strain graphs in determining material properties;** • **Produce stress vs strain graphs from either given or collected data** • **Define various material descriptions, such as "stiff", "tough", "brittle", etc**	**This week is for consolidation and revision. A series of revision resources can be found at "physicsandmathstutor.com" and a series of revision resources will be made available for you. You will also have time to improve your own notes, develop flashcards and practice exam questions.**	

		• **Describe the shape of said graphs for various material descriptions**		
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