Subject	Year 10 Physics Content Summer Term	How to support students' learning
Forces and Motion	Summary of Concepts Covered: ➢ Momentum and conservation of momentum ➢ Hooke's Law – Required Practical	Momentum is a vector quantity you need to know. Review your knowledge by watching this video: GCSE Physics - Momentum Part 1 of 2 - Conservation of Momentum Principle #59 - YouTube You will have completed a required practical about Hooke's law, investigating how the force applied affects the extension of the spring. Revisit the practical by watching this video: Hooke's Law - GCSE Science Required Practical - YouTube
Electricity	Summary of Concepts Covered: ➢ Current and Charge ➢ Ohm's Law and Resistance ➢ Series Circuits ➢ Parallel Circuits	If you are studying the combined course you will start your topic on Electricity at the end of year 10. Review the concept of current and charge covered in lessons by reading through the key information on the website here: Electrical charge and current - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize Ohm's law is a vital rule and equation that has been covered in lesson. You may have completed a practical on the equation. Review the equation and practise using it by completing some questions here: Ohm's Law and resistance test questions - National 5 Physics Revision - BBC Bitesize Series circuits were covered in year 7/8 at a basic level. You are now expected to use the rules to solve a variety of questions. Recap the information here: Series circuits - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize And for parallel circuits: Parallel circuits - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize
Forces and Motion – Triple Physics Content Only	Summary of Concepts Covered: ➢ Impact forces and safety	If you are studying for separate sciences you have a few extra topics to study before the end of year 10. You have already studied momentum and conservation of momentum. Now apply your knowledge to a force causing a rate of change of momentum. Watch this video here: GCSE Physics - Momentum Part 2 of 2 - Changes in Momentum #60 - YouTube

Force and Pressure - Triple Physics Content Only	Summary of Concepts Covered: ➢ Pressure in a fluid. ➢ Pressure in liquids at different depths. ➢ How atmospheric pressure varies with height. ➢ Upthrust on submerged objects.	Pressure is a basic concept you covered in year 8, review this information by watching the video: What is Pressure? | Physics | Don't Memorise - YouTube What about pressure caused by fluids? Read about static fluid pressure here: What is Hydrostatic Pressure -- Fluid Pressure and Depth (edinformatics.com) The atmosphere causes pressure too. Review how the pressure changes due to the altitude by watching this video: GCSE Physics - Atmospheric Pressure #50 - YouTube Upthrust is an important force that helps explain why objects sink or float. Review the content covered in lessons by reading this website: Upthrust (4.2.4) | CIE A Level Physics Revision Notes 2022 | Save My Exams
Waves - Triple Physics Content Only	Summary of Concepts Covered: ➢ How we hear sound. ➢ Uses of waves in imaging, sonar ➢ Developing theories on the structure of the Earth. ➢ Concave (diverging) and convex (converging) lenses. ➢ Light and Colour	Understand how we hear and all about sound waves by watching this video: GCSE Physics - Sound Waves and Hearing #73 - YouTube What is sound used for? Imaging and sonar and 2 examples you need to know. Watch the video here for more information: GCSE Physics - Ultrasound #74 - YouTube You need to know how S waves and P waves are used to determine the structure of the Earth. Review your knowledge by reading this website: The Earth - Pass My Exams: Easy exam revision notes for GSCE Physics Practise drawing concave and convex diagrams by watching this video here: GCSE Physics - How to Draw Ray Diagrams #70 - YouTube Read through the website here about light and colour: Visible Light and Colours (GCSE Physics) - Study Mind