

Subject	Year 9 Physics Content Summer Term	How to support students' learning
Molecules of Matter	<p>Summary of the concepts covered:</p> <ul style="list-style-type: none"> ➤ Density ➤ Density – Required Practical for GCSE ➤ States of Matter ➤ Changes of State ➤ Internal Energy ➤ Specific Latent Heat ➤ Gas Pressure and Temperature 	<p>You will have covered density in lesson, use the simulation to have play with density of materials: Density - Density Mass Volume - PhET Interactive Simulations (colorado.edu)</p> <p>You will need to know about the density required practical for GCSE science. Watch the video here to review the content covered in lesson: Density - GCSE Science Required Practical - YouTube</p> <p>Read this BBC bitesize website about solids, liquids and gases: Solids, liquids and gases - The three states of matter - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize</p> <p>You need to know how solids can turn into liquids etc, watch this video about changes of state: Changes of State Matter Physics FuseSchool - YouTube</p> <p>Read up about internal energy using the BBC Bitesize: Internal energy - Temperature changes and energy - AQA - GCSE Physics (Single Science) Revision - AQA - BBC Bitesize</p> <p>Specific latent heat is a difficult concept, read about it first: Specific latent heat - Temperature changes and energy - AQA - GCSE Physics (Single Science) Revision - AQA - BBC Bitesize then try this website for questions: Specific latent heat test questions - National 5 Physics Revision - BBC Bitesize</p> <p>Gas temperature affects its pressure when under a fixed volume, watch this video to recap your knowledge: GCSE Physics - Factors Affecting Gas Pressure #29 - YouTube</p>

Radioactivity	<p>Summary of the concepts covered:</p> <ul style="list-style-type: none">➤ Atoms and Radiation➤ The Discovery of the Nucleus➤ Changes in the Nucleus➤ More about Alpha, Beta and Gamma Radiation➤ Activity and Half Life	<p>Review the content of radiation using the website here: Physics-SchoolUK.com - Atomic Structure KS4.</p> <p>You need to know about the plum pudding model and Rutherford's planetary model, read through this website here: Radioactivity : Discovery of the Nucleus</p> <p>Alpha, Beta and Gamma are the three types of radiation you need to know. Watch a video to recap: GCSE Physics - Alpha, Beta and Gamma Radiation #33 - YouTube</p> <p>Half life is an important quantity in physics. Read through this website and see the animation to show you what is meant by half life: Radioactive Half Life - Pass My Exams: Easy exam revision notes for GCSE Physics</p>
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