



Subject	Year	Term										
Physics	9	3										
Topic												
Solids, Liquids and Gases (Particle Model of Matter -Part 1)												
Content (Intent)												
Prior Learning (Topic)	Waves											
Unit 3: The Particle Model of Matter												
Students will revisit the basics with describing states of matter – solids, liquids, and gases. They will be introduced to the density equation which will be used to in a required practical to find the densities of regular and irregular shapes. Internal energy will be developed on from the topic of energy, describing why states of matter exist, referring to intermolecular forces. Specific heat capacity will be introduced here as it relates to the Energy topic and will be further supported by a required practical.												
Future Learning (Topic) Particle Model of Matter (Part 2)												
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)											
Finding innovative means to measure the density of objects – using measuring skills and the correct equipment. Know that different states of matter have different densities. Investigate what can affect the internal energy of a material and recording observations. Know what specific heat capacity is and know the required practical skills needed to investigate it.	Formative Feedback Task (End of Unit tests)											
	Pupils given formative feedback on: Physics – Solids, Liquids and Gases											
	Assessment 2 (June): Summative assessment including: <ul style="list-style-type: none">WavesSolids, Liquids and Gases Cumulative assessment will include Energy (Energy and Energy transfers), Waves (Sound and Light, from Years 7 and 8.											
Skills to be taught – learning new physics equations and applying them in familiar and unfamiliar contexts. The application of collected data into graphs and for analysis. Standard Practical Skills such as reading measuring equipment with accuracy and precision, taking repeats, following methods. Required Practical: To determine the density of objects.	Interleaving Topic: Energy Stores and Transfers – Reference to Stores of energy – KE and PEs, cross over with Specific Heat Capacity with an Energy focus. Revisiting the key Energy Formulae.											
How can parents help at home?												
Ensure all class booklets are complete and homework submitted on time Assist in ensuring the active use of the EDUCAKE online learning platform where each pupil is given a personal log on from their teachers. Encourage pupils to revise for tests and exams and to create revision resources such as flash cards and posters. Ensure all pupils have all their resources required for science lessons, including booklets, pens and calculators												
Helpful further reading/discussion (including Reading and Vocabulary Lists)												
Reading EDUCAKE online learning platform. BHHS Knowledge organisers Resources on TEAMS Glossaries	Vocabulary Lists <table><tr><td>Particles</td><td>Internal energy</td></tr><tr><td>Specific heat capacity</td><td>Latent heat</td></tr><tr><td>Pressure</td><td>Kinetic energy</td></tr><tr><td>Density</td><td>Volume</td></tr><tr><td>Mass</td><td></td></tr></table>		Particles	Internal energy	Specific heat capacity	Latent heat	Pressure	Kinetic energy	Density	Volume	Mass	
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