



Subject	Year	Term										
SCIENCE	7	1										
Topic												
B – Cells, C– Particles and Separating Mixtures, P – Energy												
Content (Intent)												
Prior Learning (Topic)	KS2 Science National Curriculum											
Students will have learnt SKILLS making observations during experiments and applying observations to answer questions. Students will have learnt and built upon their KNOWLEDGE about the concepts of energy, recall the three state of matter and use this knowledge to decide how mixtures may be separated, including filtering and evaporating. Students should be able to demonstrate their UNDERSTANDING of the cell structures in plants and animals and the movement of substances in and out of cells.												
Future Learning (Topic)	Structure and Functions, Elements and Compounds, Forces											
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)											
Chemistry - There will be a sequence of lessons which include the following themes; the particle model leading into techniques by which to separate mixtures Physics – A sequence of lessons on types of energy, the difference between energy and power, energy dissipation and the conservation of energy principle. Practical Skills – To make observations and collate data over a series of experiments. Maths Skills –linear equations for energy calculations	Formative Feedback Task (End of Unit tests) Pupils given formative feedback only on the topics of Biology – Cells Chemistry – Particles and Separating mixtures, Physics – Energy											
	Assessment 1 (December) Summative assessment including: • Cells • Particles and Separating mixtures • Energy • Enquiry Process											
	All topics listed will also need to be recalled in: Year 8 Assessment 1 and Year 9 Assessment 1 and 2. Pupils given a percentage, formative feedback.											
How can parents help at home? Ensure all class work is completed 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 knowledge organisers, exercise books, pens and calculators												
Helpful further reading/discussion (including Reading and Vocabulary Lists)												
Reading Use the Educake online learning platform www.educake.co.uk/ Use BBC bitesize https://www.bbc.com/bitesize/levels/z4kw2hv Use and review the Knowledge Organisers used in class.	Vocabulary Lists <table><tr><td>Distillation</td><td>Sublimation</td></tr><tr><td>Chromatography</td><td>Mitochondria</td></tr><tr><td>Nucleus</td><td>Chloroplasts</td></tr><tr><td>Cytoplasm</td><td>Diffusion</td></tr><tr><td>Cell Membrane</td><td>Dissipation</td></tr></table>		Distillation	Sublimation	Chromatography	Mitochondria	Nucleus	Chloroplasts	Cytoplasm	Diffusion	Cell Membrane	Dissipation
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