



Subject	Year	Term										
SCIENCE	7	1										
Topic												
Biology – Organisms, Chemistry - Matter, Physics – Forces (Speed and Gravity)												
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 gravity, 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 main body parts and the internal organs and specifically the human circulatory system.												
Future Learning (Topic)	Elements, Ecosystems and Energy											
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 – Topics to recall involve identifying forces, balanced and unbalanced forces, speed, distance-time graphs and gravity. Practical Skills – To make observations during practicals when reviewing changes of state, changes in gas pressure and measuring/calculating the speed of objects. Maths Skills – Plotting graphs and linear equations.	Key Piece of work (Homework) Pupils given a percentage and formative feedback . End of topic test Pupils given a percentage, formative feedback and grade. Year 7 end of term 1 and end of year exams Pupils given a percentage, formative feedback and grade.											
Biology -There will be a sequence of lessons recalling the levels of organisation, skeletal structure, joints and muscles movement and interactions, cell types, and diffusion of substances in and out of cells. Practical Skills – Develop and recall how to use a microscope and prepare slides for observation. Maths Skills – Magnification Calculation and ratios	Key Piece of work (Homework) Pupils given a percentage and formative feedback. End of topic test Pupils given a percentage, formative feedback and grade. Year 7 end of term 1 and end of year exams Pupils given a percentage, formative feedback and grade.											
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>Antagonistic</td></tr></table>		Distillation	Sublimation	Chromatography	Mitochondria	Nucleus	Chloroplasts	Cytoplasm	Diffusion	Cell Membrane	Antagonistic
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