



Subject	Year	Term
SCIENCE	8	1
Topic		
Biology – Organisms, Chemistry –Reactions, Physics – Forces		
Content (Intent)		
Prior Learning (Topic) Genes, The Earth and Waves		
Students will have the KNOWLEDGE of chemical reactions as the rearrangement of atoms representing chemical reactions using formulae and equations and also the ability to recall food tests. Students will UNDERSTAND the principle of contact forces and how to increase a force applied. They will also be able to link the effects of smoking, drugs and unhealthy diets on health, respiration and digestion processes. Students will use their practical SKILLS to set up and observe simple chemical reactions, food tests and applying forces/pressures on materials.		
Future Learning (Topic) Ecosystems, Further Reactions and the Periodic table, Energy and Waves		
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)	
Biology - There will be a sequence of lessons which include; Gas exchange, drugs, alcohol, smoking, food tests, the digestive system, nutrients, an unhealthy diet and enzymes/bacteria in digestion. Physics - There will be a sequence of lessons which include the following themes: friction, drag, turning forces, pressure in gases and liquids and stress on solids. Practical Skills – To make observations and collate data over a series of experiments. Maths Skills – Linear equations when calculating moments.	Key Piece of work (Homework) Pupils given a percentage and formative feedback. End of topic test Pupils given a percentage, formative feedback grade. Formative feedback provided. Year 8 end of term 1 and end of year exams Pupils given a percentage, formative feedback grade.	
Chemistry - There will be a sequence of lessons which include the following themes; acids, alkalis, indicators, neutralisation and making salts. These will then be followed by observing and explaining the properties and reactivity of metals. Practical Skills – Observations correctly recorded.	Key Piece of work (Homework) Pupils given a percentage and formative feedback. End of topic test Pupils given a percentage, formative feedback grade. Formative feedback provided. Year 8 end of term 1 and end of year exams Pupils given a percentage, formative feedback 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: Moment Pivot Turning Force Lipase Alveoli	Bronchus Lipase Lipid Trachea Neutralisation Displacement Alkali