



Subject	Year	Term
SCIENCE	7	2
Topic		
Biology - Ecosystems, Chemistry – Elements, Physics - Energy		
Content (Intent)		
Prior Learning (Topic) Organisms, Matter and Forces (speed and gravity)		
Students will have improved their investigative SKILLS by identifying parts of a plant's reproductive organs. Students will have learnt and built upon their KNOWLEDGE about the concepts of energy types and how energy is conserved and dissipated. Students will have UNDERSTOOD how communities within habitats and ecosystems interact, how we create symbols to represents elements and compounds		
Future Learning (Topic) Genes, The Earth 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 the following themes; Food webs and chains, ecosystems and competition. This will then be followed by plant reproduction including pollination, fertilisation, germination and seed dispersal. Practical Skills – To observe and recall the parts of a plants reproductive system.	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 2 and end of year exams Pupils given a percentage, formative feedback and grade.	
Chemistry - There will be a sequence of lessons that cover: Chemical Symbols, properties of atoms and elements, compounds, mixtures and chemical formula. 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.	Key Piece of work (Homework) Pupils given a percentage and formative feedback. End of topic test Pupils given a percentage, formative feedback and grade. Formative feedback provided. Year 7 end of term 2 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 Power Watt Dissipation Renewable Compound Element	Pollination Germination Seed Dispersal