Year Group	: 8 Subject: Science	Term: Summer 2020		
Topic Key Learning points Assessment				
Biology: Photosynthesis	 End Point: Understand that photosynthesis is a biochemical proced Give a simple explanation of how specific adaptations and special Describe how structures of specialised cells plant cells (reference) Describe photosynthesis using a word equation Describe the function of stomata Describe the test for starch Explain why leaves left in sunlight test positive for starch Compare gas levels around a plant linking with ideas about daytime and night time Describe limiting factors graphs in terms of limiting the raise of the started st	ess that stores energy from sunlight in glucose. Alised cells facilitate photosynthesis in plants. boot hair cell and palisade) are related to function but rate of photosynthesis and respiration in te of photosynthesis	Students will be formatively assessed during each topic by weekly multiple-choice tests in class: • Before each assessment students will complete a	
Chemistry: Reactions of Metals	 End Point: Identify the properties of metals and describe the difference of through the reactions of acids and bases and describe hore. Write word equations for the reaction of metals and acids Predict the name of salts formed Describe the test for hydrogen (squeaky pop). Know that a more reactive metal will displace a less reaction. Predict the order of reactivity of metals from displacement. Write word equations for the reaction of acids and metals. Predict the order of reactivity of metals from displacement. Write word equations for the reaction of acids and metals. Describe how to test for carbon dioxide (limewater). Know that a salt is a compound formed by the neutralisate. Describe how to prepare a soluble salt from an insoluble. Know that corrosion is the reaction of oxygen with the sure. Know that a physical barrier can be used to prevent oxyg corrosion. 	rent reactions of metals. Know how salts of w metals can be protected from corrosion. tive metal from a compound t reactions carbonates ion of an acid with a base acids metal oxide rface of a metal en and/or water from reaching a metal to stop	 After each assessment there will be an opportunity for students to review their understanding Teachers will provide students with targeted feedback, based on their test performance At the end of the term students will have a summative assessment. This will be a 45 mark oxam paper 	
Physics: Heating and Cooling	 End Point: Understand how energy is transferred between stores convection) and by radiation. Recap the particle model and how the arrangement/move Describe state changes in terms of energy and recap heat Recap energy stores and energy transfer mechanisms Know the difference between heat and temperature Know the thermal energy is transferred through solids by Know that thermal energy is transferred through liquids a Know that materials can be conductors or insulators of th Use practical work to determine how to reduce heat loss, materials used in house building 	of energy both by particles (conduction and ement of particles changes during a state change ating and cooling curves conduction nd gases by convection m by radiation ermal energy relate this to everyday issues, such as insulating	(15 marks from each topic), which will be marked by their teacher	