Year Group	: 8 Subject: Science	Term: Summer 2022		
Topic Key Learning points Assessment				
Biology: Photosynthesis	 End Point: Understand that photosynthesis is a biochemical process that stores energy from sunlight in glucose. Give a simple explanation of how specific adaptations and specialised cells facilitate photosynthesis in plants. Describe how structures of specialised cells plant cells (root hair cell and palisade) are related to function 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 rate of photosynthesis and respiration in daytime and night time Describe limiting factors graphs in terms of limiting the rate of photosynthesis Describe extremophile plant adaptations 		Students will be formatively assessed during each topic by weekly multiple-choice tests in class: Before each assessment students will complete a revision homework	
Chemistry: Reactions of Metals	 formed through the reactions of acids and bases and describe Write word equations for the reaction of metals and ac Predict the name of salts formed Describe the test for hydrogen (squeaky pop). Know that a more reactive metal will displace a less re Predict the order of reactivity of metals from displacem Write word equations for the reaction of acids and met Describe how to test for carbon dioxide (limewater) Know that a salt is a compound formed by the neutralis Know that all metal oxides are bases and can neutralis Describe how to prepare a soluble salt from an insolub Know that corrosion is the reaction of oxygen with the Know the conditions required for rusting 	 After each assess the each assess and describe the different reactions of metals. Know how salts of all through the reactions of acids and bases and describe how metals can be protected from corrosion. 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 reactive metal from a compound Predict the order of reactivity of metals from displacement reactions Write word equations for the reaction of acids and metal carbonates Describe how to test for carbon dioxide (limewater) Know that a salt is a compound formed by the neutralisation of an acid with a base Know that all metal oxides are bases and can neutralise acids Describe how to prepare a soluble salt from an insoluble metal oxide Know that corrosion is the reaction of oxygen with the surface of a metal Know that a physical barrier can be used to prevent oxygen and/or water from reaching a metal to stop 		
Physics: Space	 End Point: Know the structure of the solar system and be able experience day, night, months, years and seasons Know that our sun is a star and know that there are othen. Know the name and order of the planets in our solar system. Know that the earth orbits the sun and know how many. Know that the earth rotates on its axis and that the axist. Describe why we experience day and night. Know the seasons and understand day length at differ. Know that the moon orbits the earth and know the phase. Know the history of the model of the solar system, included. Know that the light year can be used as a unit of astronomer. 	her galaxies and stars in other galaxies ystem y days are in a year. s is tilted ent times of the year and in different hemispheres ases of the moon luding the work of Aristotle, Copernicus, Galileo and	(15 marks from each topic), which will be which will be peer marked and checked by their teacher.	