Subject	Science	
Week	**Learning**	**Activities**
Week beginning 8th June	**Biology: Preserving Biodiversity** In this lesson we are going to look at the different methods of conservation. We will see how the IUCN red list is used to inform conservation work across the world.	Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Assignments are completed through the assignments section of MS Teams.
	Chemistry: Mid-topic Recap or Assignment In this lesson we are going to consolidate what we have learnt throughout the Acids & Alkali topic or we are completing the assignment which covers taught content from biology, chemistry and physics.	Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Assignments are completed through the assignments section of MS Teams.
	Physics: In this lesson we are going to review the specific heat capacity and specific latent heat core practical.	Lesson Video on MS Teams for a demonstration of the core practical. You can then complete the attached worksheets. There is also an assignment based on the kinetic theory content that you have covered so far. Assignments are completed through the assignments section of MS Teams.
Week beginning 15th June	**Biology: Water Cycle** In this lesson we are learning about how water cycles through the ecosystem and how we can produce clean drinkable water.	Learning Loop PowerPoint Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Learning check is done through a forms quiz which is hyperlinked in the document or can be found: MS Forms: Water cycle

	Chemistry: Carbonate Reactions & Limiting Reagents In this lesson we are learning what happens when an acid reacts with a metal carbonate, how to prove it the gas which was made and how to tell which reactant is in the lowest amount in that chemical reaction.	Lesson Video Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Learning check is done through a forms quiz which is hyperlinked in the document or can be found: Independent work and Teacher Assessed Assignment
	Physics: In this lesson we are learning how forces can change the shape of objects and what the relationship is between force and extension when an object is deformed.	Lesson Video/PowerPoint Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Assignments are completed through the assignments section of MS Teams.
Week beginning 22nd June	**Biology: carbon cycle** In this lesson we are going to look at how carbon is cycled through an ecosystem. We will look at the main ways CO2 is released into the atmosphere and how it is taken out. We will study the impacts humans are having on the planet through the use of fossil fuels, deforestation and building.	Lesson PowerPoint Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Independent work and Teacher Assessed Assignment
	Chemistry: Solubility Reactions In this lesson we are learning how to predict if an insoluble salt will be made when two soluble salts are mixed together. We will look at extending these predictions into word and symbol equations which include state symbols.	Lesson Video Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Independent work and Teacher Assessed Assignment
	Physics: Core Practical CP13a – Investigating Springs. In this lesson you will attempt the core practical using an online simulation.	Learning Loop PowerPoint Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the simulation you will use. Core Practical Simulation

		Learning check is done through a forms quiz which is hyperlinked in the document or can be found: MS Forms: Investigating Springs
Week beginning 29th June	**Biology: Nitrogen Cycle** In this lesson we are learning why plants need nitrates and the role of bacteria within the nitrogen cycle.	Learning Loop PowerPoint Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Independent work and Teacher Assessed Assignment MS Forms: Nitrogen Cycle
	Chemistry: Equations In this lesson we are learning to calculate the concentration of different soluble solutions. Then we are going to learn how to express different chemical reactions as word equations, symbol equations, ionic equations or half-reactions.	Learning Loop PowerPoint Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Learning check is done through a forms quiz which is hyperlinked in the document or can be found: MS Forms: Foundation – Equations MS Forms: Higher - Equations
	Physics: Extension Calculations In this lesson we will learn and apply the equation that links the force applied to an object and the extension.	Learning Loop PowerPoint Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Learning check will be in the form of an assignment. Assignments are completed through the assignments section of MS Teams.
Week beginning 6th July	**Biology: Nitrates and Farming** In this lesson will look into the importance of nitrates for plants and also how growing and harvesting crops can change the nitrate concentration in the soil.	Learning Loop Lesson PowerPoint Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed.

	We will also study the pros and cons of fertiliser use.	Learning check is done through a forms quiz which is hyperlinked in the document or can be found: Independent work and Teacher Assessed Assignment MS Forms: Nitrates and Farming
	Chemistry: Maximum Yield In this lesson we are linking together the ideas of solubility and how much of an insoluble salt can be made during the chemical reaction. This lesson will look at recapping symbol equations and stoichiometric (balancing number) relationships.	Lesson Video Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Prior to week of 13th July, watch the short video about concentration calculations Independent work and Teacher Assessed Assignment
	Physics: Energy transfers and Equations Revision In this lesson we will look at the energy transfers that take place when stretching objects. We will also review the equations that you need to learn for the entire course and ways in which you can learn them.	Learning Loop PowerPoint Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Learning check is done through a forms quiz which is hyperlinked in the document or can be found: MS Forms: Energy Transfers & Equations
Week beginning 13th July	**Biology: CB9 Consolidation** In this lesson we will bring together the different parts of the CB9 topic to ensure broader understanding of how the content links.	Learning Loop PowerPoint Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Learning check is done through a forms quiz which is hyperlinked in the document or can be found: MS Forms: CB9 Consolidation
	Chemistry: Concentration & Balancing using Masses	Lesson Video

	In this lesson we are recapping how to balance chemical equation and learning how to do to this when provided with masses of reactants. The process we are going to learn follows very closely to the method taught in term 4 regarding calculating empirical formula of a compound.	Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. Independent work and Teacher Assessed Assignment
	Physics: Particle Model and Thermal Physics Revision In this lesson we will be revising the content of CP12 which covers the particle model and kinetic theory.	Learning Loop PowerPoint Follow the instruction and guidance to watch the video found on MS Teams where a member of CTS will go through the theory and examples which are then self-assessed. The learning check will be done through an assignment. Assignments are completed through the assignments section of MS Teams.