Class of 2024 – Triple Chemistry

Long Term Plan 2020-21

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	W/C 24/08	W/C 31/08	W/C 07/09	W/C 14/09	W/C 21/09	W/C 28/09	W/C 05/10	W/C 12/10	W/C 02/11	W/C 09/11	W/C 16/11	W/C 23/11	W/C 30/11
		C5 Energy changes What are endothermic and exothermic reactions?	**C5 Energy changes** How can we investigate energy changes?	**C5 Energy changes** How can we calculate bond energy?	**C5 Energy changes** What are cells and batteries?	**C5 Energy changes** What have we learnt in C5?	**C4 Chemical changes** What is a displacement reaction? **C4 Chemical changes** How do acids react?	**What have we learnt?** Interleaving: C9	**What have we learnt?** Interleaving: C1, C2, C9 and C5	**What have we learnt?** Interleaving: C1, C2, C9 and C5	**C4 Chemical changes** How do acids react?	**C4 Chemical changes** What happens during neutralisation?	**C4 Chemical changes** What is the difference between a strong and a weak acid?
Cycle 2	W/C 07/12	W/C 14/12	W/C 04/01	W/C 11/01	W/C 18/01	W/C 25/01	W/C 01/02	W/C 08/02	W/C 22/02	W/C 01/03	W/C 08/03	W/C 15/03	W/C 22/03
	C4 Chemical changes What happens in a titration?	**C4 Chemical changes** How can we use electrolysis to extract metals?	**C4 Chemical changes** How can we write equations to represent what is happening in electrolysis?	**C4 Chemical changes** How can we carry out electrolysis?	**C4 Chemical changes** What have we learnt in C4?	**C6 – Rates of reaction** What is collision theory?	**C6 – Rates of reaction** How can we investigate the effect of concentration on rate?	**What have we learnt?** Interleaving: C9	**What have we learnt?** Interleaving: C1, C2, C9, C4 and C5	**What have we learnt?** Interleaving: C1, C2, C9, C4 and C5	**C6 – Rates of reaction** What have we learnt in C6?	**C6 – Rates of reaction** How do temperature, surface area and catalysts affect rate?	**C6 – Rates of reaction** How can we calculate rates from graphs?
Cycle 3	W/C 12/04	W/C 19/04	W/C 26/04	W/C 03/05	W/C 10/05	W/C 17/05	W/C 24/05	W/C 07/06	W/C 14/06	W/C 21/06	W/C 28/06	W/C 05/07	W/C 12/07
	C6 – Rates of reaction What is dynamic equilibrium?	**C6 – Rates of reaction** What is Le Chatelier's principle?	**C6 – Rates of reaction** What have we learnt in C6?	**C3 Quantitative chemistry** What is relative formula mass?	**C3 Quantitative chemistry** What is a mole?	**C3 Quantitative Chemistry** How can we calculate masses from equations?	**C3 Quantitative chemistry** How can we calculate percentage yield and atom economy?	**C3 Quantitative chemistry** How can we calculate concentrations ?	**What have we learnt?** Interleaving: C1, C2, C3, C4, C5, C7 and C9	**What have we learnt?** Interleaving: C1, C2, C3, C4, C5, C7 and C9	**C3 Quantitative chemistry** How can we carry out a titration?	**C3 Quantitative chemistry** How do we answer questions about titrations?	**C3 Quantitative chemistry** How can we calculate concentration experimentally ?