Next Three Steps report

Each subject area to identify: a) in the first column, 10 likely PLCs/topics for revision; b) in the second column, sources of help / means of revision (GCSE pods, Oaks Academy Lessons, VLE, YouTube tutorials, weekly enrichment sessions, websites, subscription sites that pupils can access free of charge, anything else you consider useful).

Subject area : Chemistry Triple		
	Needs to	How
1	Draw dot and cross diagrams for the molecules of hydrogen, chlorine, oxygen, nitrogen, hydrogen chloride, water, ammonia and methane	Chemistry intervention supporting lessons on Tuesday and Thursday. W:\Science\VLE\Chem C2.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6011&exam_board_id=1010&topic_id=8213
2	**HT ONLY: Calculate the masses of reactants and products when given a balanced symbol equation**	Chemistry intervention supporting lessons on Tuesday and Thursday. W:\Science\VLE\Chem C3.html https://app.tassomai.com/login
3	**HT ONLY: Describe how to carry out titrations of strong acids and strong alkalis and calculate quantities in titrations involving concentrations in mol/dm^3 and g/dm^3**	Chemistry intervention supporting lessons on Tuesday and Thursday. W:\Science\VLE\Chem C3.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6011&exam_board_id=1010&topic_id=8214
4	**Required practical 1:** preparation of a pure, dry sample of a soluble salt from an insoluble oxide or	Chemistry intervention supporting lessons on Tuesday and Thursday.

	carbonate using a Bunsen burner to heat dilute acid and a water bath or electric heater to evaporate the solution	W:\Science\VLE\Chem C4.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6011&exam_board_id=1010&topic_id=8215 https://sway.office.com/QBMF8w5DBqWZ3NdI
5	Describe the electrolysis of aqueous solutions and predict the products of the electrolysis of aqueous solutions containing single ionic compounds	Chemistry intervention supporting lessons on Tuesday and Thursday. W:\Science\VLE\Chem C4.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6011&exam_board_id=1010&topic_id=8215 https://sway.office.com/QBMF8w5DBqWZ3NdI
6	**HT ONLY: Explain the energy changes in breaking and making bonds and calculate the overall energy change using bond energies**	Chemistry intervention supporting lessons on Tuesday and Thursday. W:\Science\VLE\Chem C5.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6011&exam_board_id=1010&topic_id=8216
7	Describe the overall reaction in a hydrogen fuel cell	Chemistry intervention supporting lessons on Tuesday and Thursday. W:\Science\VLE\Chem C5.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6011&exam_board_id=1010&topic_id=8216

8	Use collision theory to explain changes in the rate of reaction, including discussing activation energy	Chemistry intervention supporting lessons on Tuesday and Thursday. W:\Science\VLE\Chem C6.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6011&exam_board_id=1010&topic_id=8217
9	**HT ONLY: Explain and predict the effect of a change in concentration of reactants or products, temperature, or pressure of gases on the equilibrium position of a reaction**	Chemistry intervention supporting lessons on Tuesday and Thursday. W:\Science\VLE\Chem C6.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6011&exam_board_id=1010&topic_id=8217
10	Describe the process of cracking and state that the products of cracking include alkanes and alkenes and describe the test for alkenes	Chemistry intervention supporting lessons on Tuesday and Thursday. W:\Science\VLE\Chem C7.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6011&exam_board_id=1010&topic_id=8218