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 Trilogy		
	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 Monday and Wednesday. W:\Science\VLE\Chem C2.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6056&exam_board_id=1032&topic_id=8251
2	Explain the properties of graphite, diamond and graphene in terms of their structure and bonding	Chemistry intervention supporting lessons on Monday and Wednesday. W:\Science\VLE\Chem C2.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6056&exam_board_id=1032&topic_id=8251
3	**HT ONLY: Calculate the masses of reactants and products when given a balanced symbol equation**	Chemistry intervention supporting lessons on Monday and Wednesday. W:\Science\VLE\Chem C3.html

		https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6056&exam_board_id=1032&topic_id=8252
4	Relate the reactivity of metals to its tendency to form positive ions and be able to deduce an order of reactivity of metals based on experimental results	Chemistry intervention supporting lessons on Monday and Wednesday. W:\Science\VLE\Chem C4.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6056&exam_board_id=1032&topic_id=8253 https://sway.office.com/QBMF8w5DBqWZ3NdI
5	Predict the salt produced in a neutralisation reaction based on the acid used and the positive ions in the base, alkali or carbonate and use the formulae of common ions to deduce the formulae of the salt	Chemistry intervention supporting lessons on Monday and Wednesday. W:\Science\VLE\Chem C4.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6056&exam_board_id=1032&topic_id=8253 https://sway.office.com/QBMF8w5DBqWZ3NdI
6	**Required practical 1:** preparation of a pure, dry sample of a soluble salt from an insoluble oxide or carbonate using a Bunsen burner to heat dilute acid and a water bath or electric heater to evaporate the solution	Chemistry intervention supporting lessons on Monday and Wednesday. W:\Science\VLE\Chem C4.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6056&exam_board_id=1032&topic_id=8253 https://sway.office.com/QBMF8w5DBqWZ3NdI

7	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 Monday and Wednesday. W:\Science\VLE\Chem C4.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6056&exam_board_id=1032&topic_id=8253
8	Interpret and draw reaction profiles of exothermic and endothermic reactions, inc identifying the relative energies of reactants and products, activation energy and overall energy change	Chemistry intervention supporting lessons on Monday and Wednesday. W:\Science\VLE\Chem C5.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6056&exam_board_id=1032&topic_id=8254
9	**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 Monday and Wednesday. W:\Science\VLE\Chem C5.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6056&exam_board_id=1032&topic_id=8254
10	Use collision theory to explain changes in the rate of reaction, including discussing activation energy	Chemistry intervention supporting lessons on Monday and Wednesday. W:\Science\VLE\Chem 6.html https://app.tassomai.com/login https://members.gcsepod.com/content?subject_id=6056&exam_board_id=1032&topic_id=8255