

New Year 12 Induction SoW

Lesson Title	Plan	Resources	Video Links to Support:
1 Moles and Reacting Masses	<p>Do Now: Amount of Substance Booklet Task 1-3 Writing Formulae and then explanation of how to work out Balancing Chemical Equations (5 min explanation and then Task 4 and 5 in Amount of Substance Booklet</p> <p>Review moles and avogadro constant and Task 8 on Amount of Substance Booklet</p> <p>Start Reacting Mass Calculations and use Task 9 and 10 to demonstrate and to practise</p>	CHEMSHEETS Amount of Substance Booklet	<p>Ionic Formulae</p> <p>https://www.youtube.com/watch?v=URC75hoKGLY</p> <p>https://www.youtube.com/watch?v=8i0iR5SN0Dg</p> <p>https://www.youtube.com/watch?v=36QeMvFDvs</p> <p>https://www.youtube.com/watch?v=1GFkVv8vub6</p>
2 Moles and Reacting Masses 2	<p>Review Reacting Masses and finish Task 9 and 10 in Amount of Substance booklet.</p> <p>Discuss limiting reagent and use Task 11 to practise.</p> <p>SET REACTING MASS INDEPENDENT TASK WITH VIDEO (skip bit of video about % yield and Atom Economy) ---- EMAIL ANSWER SHEET</p> <p>https://www.youtube.com/watch?v=nuNvXkoAgY&list=PLc40ChjSra0OZlQy0X565XnRt3uKUE-5&index=3</p>		<p>Balancing Equations</p> <p>https://www.youtube.com/watch?v=yA3T72em56</p> <p>https://www.youtube.com/watch?v=qqo0FYOpd10</p> <p>https://www.youtube.com/watch?v=v9AW42dh5SA</p> <p>https://www.youtube.com/watch?v=jmVtVCTZD</p> <p>https://www.youtube.com/watch?v=Z0V8EMwRlQ</p> <p>https://www.youtube.com/watch?v=TKDQvR7WYQO</p>
3 Titrations	<p>Demo how to set up and carry out a titration to find the volume of acid that reacts with alkali.</p> <p>Go through a calculation to show how the data from titrations is used to calculate the concentration.</p> <p>Use Task 16 questions to test and review</p>	Titration Set Up For Students	<p>Limiting Reagent</p> <p>https://www.youtube.com/watch?v=saR8T5o2f8</p> <p>https://www.youtube.com/watch?v=rLc148UcT2w</p> <p>https://www.youtube.com/watch?v=vn3Rv3e1VPk</p>
4 Titrations 2	Student titration experiment as per GCSE Required Practical Sheet	PRACTICAL: Carrying Out A Titration Aiming for 8	<p>Titration Calculation</p> <p>https://www.youtube.com/watch?v=x8DlLCNMKAs</p> <p>https://www.youtube.com/watch?v= Q-fysStdlf</p> <p>https://www.youtube.com/watch?v=c3Eht-tW0U</p> <p>https://www.youtube.com/watch?v=M2Jg-NfLUQ</p> <p>https://www.youtube.com/watch?v=nlm7w7h0p8w&list=PLc40ChjSra0OZlQy0X565XnRt3uKUE-5&index=1</p>
5 Titration Calculations	<p>Use GCSE Titration Calculations sheet to practise</p> <p>If needed finish the questions on last lessons practical and use Jim Clark question for extra practise.</p> <p>SET Titration INDEPENDENT TASK WITH VIDEO ---- EMAIL ANSWER SHEET</p> <p>https://www.youtube.com/watch?v=heXnYaZcCtU8&list=PLc40ChjSra0OZlQy0X565XnRt3uKUE-5&index=1</p>	C4.8 Titration Calculations	<p>Empirical Formula</p> <p>https://www.youtube.com/watch?v=xMgR8Rm53ls</p> <p>https://www.youtube.com/watch?v=rcrnR43-jjIw</p> <p>https://www.youtube.com/watch?v=wrnRaBVvYKY</p> <p>https://www.youtube.com/watch?v=GkPPK2xe9o</p>
6 Dynamic Equilibrium	<p>Use Chemsheets PowerPoint to explain dynamic equilibrium and le chatelier's principle. Use duplo blocks to illust</p> <p>Use Chemsheets 1038 to test and review.</p> <p>If in the (unlikely) event extra is needed, project an extra chemsheets Eq sheet onto board.</p>	Big duplo blocks for a demo Chemsheets 1038 Le Chatelier 1	
7 Empirical and Molecular Formula	<p>Explain the difference between empirical and molecular formulae and how to calc empirical formulae.</p> <p>Use Task 18 on Amount of Substance Booklet to check.</p> <p>If time move onto percentage yield and atom economy calcs.</p>		
8 Transition Test			