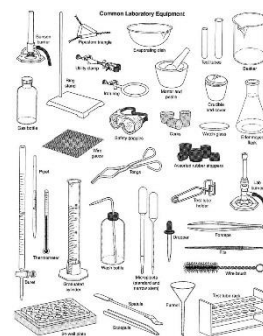


**Triple Unit Overview – Chemical quantities and calculations**

**Target grade for test:.....**



**You will learn about:**

- The conservation of mass and relative formula mass.
- Moles and the amount of substances in equations.

**You will be able to:**

- Calculate relative formula mass and moles.

<table border="1"> <tr> <td colspan="2"><b>Key learning points</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Conservation of mass</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Relative formula mass</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Mass changes of gases in reactions</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Moles</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Amount of substances in equations</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Limiting reactants</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Moles in solutions</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Percentage yield</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Atom economy</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Titrations</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Volumes of gases</td> <td></td> <td></td> <td></td> </tr> </table>					<b>Key learning points</b>					Conservation of mass					Relative formula mass					Mass changes of gases in reactions					Moles					Amount of substances in equations					Limiting reactants					Moles in solutions					Percentage yield					Atom economy					Titrations					Volumes of gases					<p align="center"><b>Key Words</b></p> <p><b>Moles</b>  <b>Relative Atomic Mass</b>  <b>Relative Formula Mass</b>  <b>Avogadro Constant</b>  <b>Atomic mass</b>  <b>Conservation of mass</b>  <b>Atomic number</b></p>	
<b>Key learning points</b>																																																																		
Conservation of mass																																																																		
Relative formula mass																																																																		
Mass changes of gases in reactions																																																																		
Moles																																																																		
Amount of substances in equations																																																																		
Limiting reactants																																																																		
Moles in solutions																																																																		
Percentage yield																																																																		
Atom economy																																																																		
Titrations																																																																		
Volumes of gases																																																																		
<p><b>Links to other subjects:</b></p> <p>SMSC: Understand and appreciate the impacts of human development on the environment and describe the effects that this is having.</p> <p>Literacy: Describe observations in practical work. Explain the development of periodic table and the structure of the atom. Describe how reactivity and trends are linked to position in the periodic table.</p> <p>Numeracy: Use decimal and standard form, make simple calculations, use appropriate significant figures, construct tables and histograms, visualise and represent models in a 2D form and change the subject of an equation.</p>																																																																		
Research	Note-making	Group work & discussion	Memorisation	Precision & accuracy	Independence	Reflection																																																												