GRADE 11 CHEMISTRY RECORDS OF WORK 2027

Terms 1, 2 and 3 | Ministry of Education calendar 2027 (Senior School) | 5 lessons a week

Teacher's name _____ School _____

Class / stream _____ TSC number _____

TERM 1

Wk	Dates	Strand / sub-strand	Work covered	Reflection / remarks	Sign
1	4 Jan - 8 Jan (5 lessons)	**1.0 Inorganic Chemistry** - 1.1 The Mole	1. The mole as a counting unit 2. Avogadro's constant, the mole and molar mass 3. Relative atomic mass and the carbon-12 scale 4. Relative formula mass and molar mass of compounds 5. Converting mass to moles		
2	11 Jan - 15 Jan (5 lessons)	**1.0 Inorganic Chemistry** - 1.1 The Mole	1. Converting moles to mass 2. Number of particles: atoms, molecules and ions 3. Mole calculations: mixed practice 4. Practical: empirical formula of magnesium oxide 5. Practical: empirical formula of copper(II) oxide		
3	18 Jan - 22 Jan (5 lessons)	**1.0 Inorganic Chemistry** - 1.1 The Mole	1. Empirical formula from percentage composition 2. Molecular formula from empirical formula 3. Water of crystallisation in hydrated salts 4. Molar solutions: concentration in mol/dm³ and g/dm³ 5. Practical: preparing a standard solution from a solid		
4	25 Jan - 29 Jan (5 lessons)	**1.0 Inorganic Chemistry** - 1.1 The Mole	1. Practical: preparing a standard solution from a liquid (dilution) 2. Dilution and concentration calculations 3. Acid-base titration: apparatus and technique 4. Practical: titrating sodium hydroxide with hydrochloric acid 5. Titration calculations with different mole ratios		
5	1 Feb - 5 Feb (5 lessons)	**1.0 Inorganic Chemistry** - 1.1 The Mole	1. Practical: concentration of ethanoic acid in vinegar 2. Redox reactions and redox titrations 3. Redox titration calculations 4. Applications of redox titrations in industry 5. Mole ratios and reacting masses		
6	8 Feb - 12 Feb (5 lessons)	**1.0 Inorganic Chemistry** - 1.1 The Mole - 1.2 Non-metals	1. Molar gas volume and reacting volumes 2. Practical: finding the molar gas volume 3. Review of the mole 4. Non-metals and sources of oxygen, hydrogen and nitrogen 5. General methods of collecting gases		