

Chemistry Teaching Schedule – Form 4

Topics covered

Term	1 st term	2 nd term
Content	1. Laboratory safety & regulation (1 period) 2. Microscopic world 1 (14 periods) 3. Metals (40 periods) 4. Acids and bases (15 periods)	4. Acids and bases (35 periods) 7. Redox reactions, chemical cells and electrolysis (40 periods)

Teaching Schedule

1st term

Content	Activity / Experiment	UT
Course requirements Laboratory Safety & Regulations	Fire drill	
2. The Microscopic World 1 7,8. Chemical bonds (Revision) 9. Structure, bonding and properties	1) Model of structures 2) Suppl 1B (All MC)	UT (Form 3)
3. Metals 10. Occurrence and extraction of metals 11. Reactivity of metals 12. Reacting masses 13. Corrosion of metals and their protection	1) Expt: Compare reactivity of metals Displacement reaction Corrosion of metals and their protection 2) Suppl 1C (All MC)	UT (part 2)
4. Acids and alkalis 14. Introduction to acids and alkalis	1) Expt: Role of water in acidic properties How do acids react? 2) Suppl 2A (Unit 14: MC)	UT (part 3)
Christmas Holiday		
1st examination		

2nd term

Content	Activity / Experiment	UT
Examination Review		
15. Concentration of solutions		
15. Concentration of solutions 16. Indicator and pH	Expt: Jumping metals	
Lunar New Year Holiday		
17. Strength of acids and alkalis 18. Salts and neutralization 19. volumetric analysis involving acids and alkalis	1) Expt: Qualitative Analysis 2: Al ³⁺ , Zn ²⁺ , Pb ²⁺ Preparation of standard solution Titration 2) Suppl 2A (All MC)	
Easter Holiday		
7. Redox reactions, chemical cells and electrolysis 30. Redox reactions 29. Simple chemical cells 28. Chemical cells in daily life 31 Redox reactions in chemical cells 32 Electrolysis	Expt: redox reaction Chemical cell Fuel cell car model Electrolysis Suppl 2B (All MC)	UT (part 4)
Yearly examination		

Post-exam and summer lessons:

Electrolysis

Microscopic world 2

UT (part 7)