Chemistry Teaching Schedule – Form 4

A. Periods allocation

Term	No. of weeks	No. of periods
1st	13	65
2nd	15	75
Total	28	140

B. Topics covered

Term	**1st term**	**2nd 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)

C. Teaching Schedule

1st term

Date	Period	Content	Activity / Experiment	UT	Remarks
05/09 – 12/10	1	Course requirements Laboratory Safety & Regulations	Fire drill		
	19	**2. The Microscopic World 1** 7,8. Chemical bonds (Revision) 9. Structure, bonding and properties	1) Model of structures 2) 5-in-1 ex (All MC)	UT (Form 3)	
15/10 – 30/11	30	**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) 5-in-1 ex (All MC)	UT (part 2)	
3/12 – 19/12	10	**4. Acids and alkalis** 14. Introduction to acids and alkalis	1) Expt: Role of water in acidic properties How do acids react? 2) 5-in-1 ex (Unit 14: MC)	UT (part 3)	
20/12 – 01/01	**Christmas Holiday**				
02/01 –18/01	**1st term examination**				

2nd term

Date	Period	Content	Activity / Experiment	UT	Remarks
21/01 – 30/01	5	Examination Review			
31/01 – 10/02	**Lunar New Year Holiday**				
11/02 – 01/03	12	15. Concentration of solutions 16. Indicator and pH	Expt: Jumping metals		
04/03 – 04/04	18	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) 5-in-1 ex (All MC)		
08/04 – 12/04	5	**7. Redox reactions, chemical cells and electrolysis** 30. Redox reactions			
13/04 – 22/04	**Easter Holiday**				
23/04 – 31/05	35	**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)	
04/06 – 19/06	**Yearly examination**				

Post-exam and summer lessons:

Electrolysis

Microscopic world 2

UT (part 7)