

Chemistry Teaching Schedule – Form 3

A. Topics covered

Term	1 st term	2 nd term
Content	<ul style="list-style-type: none">Laboratory safety & regulation (1 period)Part 1: Planet Earth (1 period)<ul style="list-style-type: none">(i) Chapter 1: Fundamental of chemistry (1.1-1.2)Part 2: The Microscopic World 1(14 periods)<ul style="list-style-type: none">(i) Chapter 5: atomic structure(ii) Chapter 6: The Periodic Table(iii) Chapter 8: chemical bonding: covalent bonding (8.4)Part 1: Planet Earth (12 periods)<ul style="list-style-type: none">(i) Chapter 1: Fundamental of chemistry (1.3-1.6)(ii) Chapter 2: The atmosphere(iii) Chapter 3: Oceans (3.1 – 3.6)	<ul style="list-style-type: none">Part 1: Planet Earth (2 periods)<ul style="list-style-type: none">Chapter 4. Rocks and minerals (only decomposition of CaCO_3 and test for CO_2)Part 2: The Microscopic World 1 (20 periods)<ul style="list-style-type: none">(1) Chapter 7. Chemical bonding: ionic bonding and metallic bonding(2) Chapter 8. Chemical bonding: covalent bonding (8.1-8.3)

B. Teaching Schedule**1st term**

Period	Content	Activity / Experiment	Exercises	Seven Learning Goals#
2	- Subject requirement - Safety Issue 1. Planet Earth Introducing chemistry (Ch 1)	Fire drill		
12	2. The Microscopic World 1 5. Atomic structure 6. Periodic Table	- Classification of elements - Metal Reactivity - Card game 1 (Color order) - Card game 2 (Match symbols) - Review on UT paper (1 lesson) - Demo: Models of mixtures and compounds	- Revision Exercises - Textbook 1B Chapter - Exercise (with checking) Chapter 5: 1-23 Chapter 6: 1-21	#2
UT				
6	2. The Microscopic World 1 8. chemical bonding: covalent bonding (8.4) 1. Planet Earth 1. Fundamental of chemistry (1.3-1.6) 2. The atmosphere		- Exercise (with checking) Chapter 2: 1-21	#2 #4
8	Chapter 3: Oceans (3.1 – 3.6)	- flame test - silver nitrate test - Electrolysis of Brine solution	Chapter 3: 1-21	#2
Christmas Holiday				
1st term examination				

2nd term

Period	Content	Activity / Experiment	Exercises	Seven Learning Goals#
2	Examination Review 1. Planet Earth 4. Rocks and minerals (4.3)	Review on exam paper (1 lesson)		#2
Lunar New Year Holiday				
4	1. Planet Earth 4. Rocks and minerals (4.5-4.6)	Textbook ch 4 Experiment: Carbonate + Acid, limewater	Supplementary notes	#2
8	2. The Microscopic World 1 7. Chemical bonding: ionic bonding	Formulae for ionic compound: Card games	Supplementary notes	#2
UT				
2	Review on UT paper (1 lesson) 7. Chemical bonding: ionic bonding	Color of solution Investigating colours of ionic compounds	Chapter 7: 1-20	#2
2	2. The Microscopic World 1 Metallic Bond			#2
Easter Holiday				
10	2. The Microscopic World 1 8. Chemical bonding: covalent bonding (8.1-8.3)		Ch.8 1-23	#2
Yearly examination				