

Chemistry Teaching Schedule – Form 3

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) (ii) Chapter 2 The atmosphere (2.1) ● Part 2: The Microscopic World 1(14 periods) <ul style="list-style-type: none"> (i) Chapter 5: atomic structure (5.2-5.3) / Chapter 2 The atmosphere (2.2) (ii) Chapter 5: atomic structure (5.1,5.4-5.7) (iii) Chapter 8: chemical bonding: covalent bonding (8.5) (iv) Chapter 6: The Periodic Table ● Part 1: Planet Earth (12 periods) <ul style="list-style-type: none"> (i) Chapter 2: The atmosphere / Chapter 1: Fundamental of chemistry (1.4) (ii) Chapter 3: Oceans (3.1 – 3.6) 	<ul style="list-style-type: none"> ● Part 1: Planet Earth (6 periods) <ul style="list-style-type: none"> Chapter 4: Rocks and minerals (4.2 -4.6) ● Part 2: The Microscopic World 1 (20 periods) <ul style="list-style-type: none"> (i) Chapter 7: Chemical bonding: ionic bonding and metallic bonding (ii) Chapter 8: Chemical bonding: covalent bonding

Teaching Schedule**1st term**

Content	Activity / Experiment	Exercises
- Subject requirement and Issue 1. Planet Earth Fundamentals of chemistry (1.1-1.2)	Fire drill	
2. The Microscopic World 1 5. Atomic structure (5.2-5.3) 8. chemical bonding: covalent bonding (8.5) 2 The atmosphere (2.1-2.2)	- Classification of elements - Metal Reactivity	- Revision Exercises - Textbook 1B Chapter Exercise (with checking) Chapter 5: 18-29
UT		
2. The Microscopic World 1 6. Periodic Table	- Card game 1 (Color order) - Card game 2 (Match symbols) - Review on UT paper (1 lesson)	- Textbook 1B Chapter Exercise (with checking) Chapter 6: 10-21
1. Planet Earth 2. The atmosphere 3. Oceans (3.1-3.3)	- Demo: Models of mixtures and compounds - Oxygen test ($\text{KClO}_3 \rightarrow \text{O}_2$, water displacement)	Chapter 2: 1-17
Christmas Holiday		
1st examination		

2nd term

Content	Activity / Experiment	Exercises
Examination Review 1. Planet Earth 3. Oceans (3.4-3.6)	Review on exam paper (1 lesson) - flame test - silver nitrate test - Electrolysis of Brine solution	Chapter 3: 1-23
Lunar New Year Holiday		
1. Planet Earth 4. Rocks and minerals (4.5-4.6)	Ext: Carbonate + Acid, limewater	Self-learn ex Textbook ch 4
2. The Microscopic World 1 7. Chemical bonding: ionic bonding	Formulae for ionic compound: Card games	Self-learn ex
Easter Holiday		
UT		
Review on UT paper (1 lesson) 2. The Microscopic World 1 7. Chemical bonding: ionic bonding and metallic Bond (7.7) 8. Chemical bonding: covalent bonding	Color of solution - Investigating colours of ionic compounds - U tube - migration of ions on slide	Chapter 7: 1-23
Yearly examination		