

Yan Oi Tong Tin Ka Ping Secondary School
NSS 3 Chemistry Teaching Schedule

NSS3

Topic	Number of lessons	Cycle(s)
<u>Chemistry of Carbon Compounds [Chapters 46 – 47]</u> <ul style="list-style-type: none"> ◆ Physical properties of organic compounds ◆ Typical reactions of various functional groups ◆ Inter-conversion of carbon compounds 	20	1 – 4
<u>Separation and Purification Methods [Chapter 64]</u> <ul style="list-style-type: none"> ◆ Crystallization ◆ Distillation and fractional distillation ◆ Liquid-liquid extraction ◆ Paper, column or thin-layer chromatography ◆ Test for purity 		
<u>Instrumental Analytical Chemistry [Chapter 66]</u> <ul style="list-style-type: none"> ◆ Mass spectrometry ◆ Infra-red spectroscopy 		
<u>Chemistry of Carbon Compounds [Chapter 45]</u> <ul style="list-style-type: none"> ◆ Isomerism 		
<u>Industrial Processes [Chapter 56]</u> <ul style="list-style-type: none"> ◆ Manufacture of vitamin C ◆ Production of methanol 	20	5 – 8
<u>Chemistry of Carbon Compounds [Chapters 24 and 48]</u> <ul style="list-style-type: none"> ◆ Aspirin ◆ Detergents ◆ Addition polymers ◆ Condensation polymers – nylon and polyesters ◆ Carbohydrates, lipids and proteins 		
<u>Green Chemistry [Chapter 57]</u> <ul style="list-style-type: none"> ◆ Principles of green chemistry ◆ Practices of green chemistry 		
<u>Microscopic World II [Chapters 25, 26 and 27]</u> <ul style="list-style-type: none"> ◆ Shape of simple molecules ◆ Dipole moments ◆ Intermolecular forces – hydrogen bonding 	5	9

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<u>Qualitative Analysis of Analytical Chemistry [Chapter 63]</u> ♦ Chemical tests for molecules, cations, anions and functional groups	5	10
<u>Quantitative Analysis of Analytical Chemistry [Chapter 65]</u> ♦ Gravimetric analysis	5	11
<u>Importance of Chemistry in the Modern Way of Living [Chapters 34 and 67]</u> ♦ Redox reactions ♦ Analytical chemistry	5	12
Mock Examination		
Revision		