

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

Sec 1NT Science

Scheme of Work (Summary)

Updated 26 Dec 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> Chapter 1: Exploring Forces (1.1)	Chapter 3: Investigating Heat (3.1)		Youth Day - 1 Jul (Mon) Chapter 4: Investigating Electricity (4.1)	Revision
2	Chapter 1: Exploring Forces (1.1 & 1.2)	Chapter 3: Investigating Heat (3.1)		Chapter 4: Investigating Electricity (4.2)	Revision
3	Chapter 1: Exploring Forces (1.3 & 1.4)	Chapter 3: Investigating Heat (3.2)		Chapter 4: Investigating Electricity (4.3)	End-of-Year Exam
4	Chapter 1: Exploring Forces (1.4)	Good Friday – 19 Apr (Friday) Chapter 3: Investigating Heat (3.3)		Chapter 4: Investigating Electricity (4.3 & 4.4)	End-of-Year Exam & 4.4)
5	Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed) Chapter 2: Discovering Energy (2.1)	Chapter 3: Investigating Heat (3.3)		Chapter 4: Investigating Electricity (4.4)	End-of-Year Exam
6	Chapter 2: Discovering Energy (2.2)	Labour Day – 1 May (Wed) Chapter 3: Investigating Heat (3.3)		National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri) Chapter 4: Investigating Electricity (4.5)	Post-EYE programme
7	Chapter 2: Discovering Energy (2.2 & 2.3)	Chapter 3: Investigating Heat (3.3)		Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) National Day School Holiday?? – 13 Aug (Tue) [not sure!] Chapter 5: Properties of Matter (5.1)	Deepavali (off-in-lieu) - 28 Oct (Mon) Post-EYE programme
8	Chapter 2: Discovering Energy (2.4)	Chapter 3: Investigating Heat (3.3)		Chapter 5: Properties of Matter (5.2)	Post-EYE programme
9	Laboratory Science	Vesak Day (off-in-lieu) – 20 May Chapter 3: Investigating Heat (3.3)		Chapter 5: Properties of Matter (5.2 & 5.3)	Post-EYE programme

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10	Laboratory Science	Chapter 3: Investigating Heat (3.3)		Chapter 5: Properties of Matter (5.3)	
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NOTE: There is a Week 0 for 2019

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Sec 1N Science

Updated 19 Dec 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> Chapter 1 – The Scientific Endeavour Theory: Exercise 1.1 – 1.3 (classwork / homework) Practical: Lab Safety PBK Activity 1.1 – 1.3	Chapter 2 – Physical Properties of Matter Theory Ex 2.3 Practical Act. 2.1,2.2,2.3	Holiday Assignment: complete Theory Chapter 3 review Ex.	Go through hol. Assignment - Complete Chapter 3 – Chemical composition of Matter Chapter 4 – Separation Techniques Theory: Ex. 4.1 Practical: Act. 4.1, 4.2	Chapter 8 – Atoms and Molecules – concept map drawing Class Quiz chapter 8 (20 min) Revision 1 – chapter 1, 5, 6 (2018 Common test 1 paper)
2	Chapter 1 – The Scientific Endeavour Theory: Exercise 1.4,1.5, review ex Practical: Activity 1.4 – 1.5	Chapter 2 – Physical Properties of Matter Practical Act. 2.5 Theory Ex. 2.4,	Do mindmaps for Chapters 1, 2, 3, 5, 6, 9	Youth Day – 8 Jul (Mon) Chapter 4 – Separation Techniques Theory: Ex. 4.3, Review ex. Practical: Act. 4.3, 4.4	Revision 2 – chapter 2, 9, 3 (combine 2018 MYE and CT 2 papers – Selected Qns)
3	Class Quiz Chapter 1 (20 min) Chapter 5 – Diversity of Living Things Theory: Exercise 5.1 (comp lab) Theory: Exercise 5.2, 5.3, review ex (homework)	Chapter 2 – Physical Properties of Matter Theory: 2.5, 2.6, review ex. Practical: 2.6		Class Quiz – chapter 3 and 4 (40 min) iSEE Chemistry	Revision 3 – EYE Past Year Paper
4	Chapter 5 – Diversity of Living Things Practical Activity 5.1 Theory Exercise 5.4, 5.5 (classwork) Practical Activity 5.2 – demo/video	Good Friday – 19 Apr (Friday) Class Quiz Chapter 2 (30 min) Chapter 9 – Ray Model of Light Theory: Ex. 9.1, 9.2 Practical: Act. 9.1, 9.2		iSEE Chemistry	
5	Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed) Chapter 6: Model of Cells Practical: activity 6.1 Theory: Exercise 6.1, 6.2 (homework)	Chapter 9 – Ray Model of Light Theory: Ex. 9.4, 9.5 Practical: Act. 9.3		Chapter 7 – Particulate Nature of Matter Theory: Ex. 7.1, 7.2 Practical: 7.1, 7.2	EYE 2019 (55%)

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6	Chapter 6: Model of Cells Practical: activity 6.2, 6.4 Theory: Exercise 6.3, review ex (homework)	<u>Labour Day – 1 May (Wed)</u> Chapter 9 – Ray Model of Light Theory: review Ex. Practical: Act. 9.4		<u>National Day Celebrations - 8 Aug (Thur)</u> <u>National Day – 9 Aug (Fri)</u> Chapter 7 – Particulate Nature of Matter Theory: Ex. 7.3, review Ex. Practical: 7.3, 7.4 (optional)	
7	Revision for Unit Test: Chapter 1, 5 and 6 Chapter 2 – Physical Properties of Matter Theory Ex 2.1, 2.2 (classwork/homework)	Revision for Unit Test 2 Unit Test 2 – Chapter 2 and 9 (CA2)		<u>Hari Raya Haji – 11 Aug (Sun)</u> <u>Hari Raya Haji (off-in-lieu) – 12 Aug (Mon)</u> Revision for Unit Test	<u>Deepavali (off-in-lieu) - 28 Oct (Mon)</u>
8	Unit Test – Chapter 5 and 6 (CA1)	Chapter 3 – Chemical composition of Matter Theory: ex. 3.1, 3.2 Practical: Act. 3.1, 3.2		Unit Test: Chapter 3, 4 and 7 (CA3)	
9	iSEE Biodiversity	<u>Vesak Day (off-in-lieu) – 20 May</u> Chapter 3 – Chemical composition of Matter Theory: ex. 3.3, 3.4 Practical: Act. 3.3, 3.4		Chapter 8 – Atoms and Molecules Theory Ex. 8.1, 8.2 Practical Act. 8.1	
10	iSEE Biodiversity	Chapter 3 – Chemical composition of Matter Theory: ex. 3.5, 3.6 Practical: Act. 3.5, 3.6		Chapter 8 – Atoms and Molecules Theory Ex. 8.3, review ex. Practical Act. 8.2 (optional)	

NOTE: There is a Week 0 for 2019

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Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> Chapter 1: The scientific endeavour	Chapter 2.2: Exploring diversity of matter by its physical properties - Density and physical quantities		Youth Day - 1 Jul (Mon) Chapter 3: Exploring diversity of matter by its chemical composition	Chapter 8: Atoms and molecules
2	Chapter 1: The scientific endeavour	Chapter 2.2: Exploring diversity of matter by its physical properties - Density and physical quantities		Chapter 3: Exploring diversity of matter by its chemical composition	Chapter 8: Atoms and molecules
3	Chapter 1: The scientific endeavour	Chapter 2.2: Exploring diversity of matter by its physical properties - Density and physical quantities		Chapter 4: Exploring diversity of matter by separation techniques	End-of-Year Exam
4	Chapter 5: Diversity of Living Things	Good Friday – 19 Apr (Friday) Chapter 9: Ray model of light		Chapter 4: Exploring diversity of matter by separation techniques	End-of-Year Exam
5	Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed) Chapter 5: Diversity of Living Things	Chapter 9: Ray model of light		Chapter 4: Exploring diversity of matter by separation techniques	End-of-Year Exam
6	Chapter 6: Model of Cells	Labour Day – 1 May (Wed) Chapter 9: Ray model of light		National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri) Chapter 4: Exploring diversity of matter by separation techniques	Post-EYE programme
7	Chapter 6: Model of Cells	Chapter 9: Ray model of light		Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) National Day School Holiday?? – 13 Aug (Tue) [not sure!] Chapter 4: Exploring diversity of matter by separation techniques	Deepavali (off-in-lieu) - 28 Oct (Mon) Post-EYE programme
8	Chapter 6: Model of Cells	Chapter 9: Ray model of light		Chapter 4: Exploring diversity of matter by separation techniques	Post-EYE programme

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9	Chapter 6: Model of Cells	Vesak Day (off-in-lieu) – 20 May Chapter 9: Ray model of light		Chapter 7: The particulate model of matter	Post-EYE programme
10	Chapter 2.2: Exploring diversity of matter by its physical properties - Density and physical quantities	Chapter 9: Ray model of light		Chapter 7: The particulate model of matter	

NOTE: There is a Week 0 for 2019

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Sec 2NT Science

Scheme of Work (Summary)

Updated 2 Nov 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> Introduction to Lab Safety	Chapter 9: Cells		Youth Day - 1 Jul (Mon) Chapter 11: Human Reproduction	Revision
2	Chapter 3: Investigating Heat	Chapter 10: Getting Energy and Nutrients from Food		Chapter 11: Human Reproduction	Revision
3	Chapter 3: Investigating Heat	Chapter 10: Getting Energy and Nutrients from Food		Chapter 11: Human Reproduction	Revision
4	Chapter 3: Investigating Heat	Good Friday – 19 Apr (Friday) Chapter 10: Getting Energy and Nutrients from Food		Chapter 11: Human Reproduction	End-of-Year Examinations
5	Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed) Chapter 4: Investigating Electricity	Class Test 2 (C9 & C10) Revision		Chapter 11: Human Reproduction	End-of-Year Examinations
6	Chapter 4: Investigating Electricity	Labour Day – 1 May (Wed) Revision		National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri) Chapter 12: Taking good care of my body Class Test 3 (C11)	Go through EYE paper
7	Chapter 4: Investigating Electricity	Mid-Year Examinations		Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) Chapter 12: Taking good care of my body	Deepavali (off-in-lieu) - 28 Oct (Mon) Post-Exam activities
8	Chapter 4: Investigating Electricity	Mid-Year Examinations		Chapter 12: Taking good care of my body	
9	Chapter 9: Cells Class Test 1 (C3 & C4)	Vesak Day (off-in-lieu) – 20 May Mid-Year Examinations		Chapter 12: Taking good care of my body	
10	Chapter 9: Cells	Go through MYE paper		Class Test 4 (C12) Revision	

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NOTE: There is a Week 0 for 2019

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Sec 3E Science (Physics)

Scheme of Work (Summary)

Updated 2 Nov 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4	
1	(Week 0: Setting Expectations & Routines) 18. Chemical Changes [Practical] <ul style="list-style-type: none"> 18.1: Changes Caused by Mixing 18.2: Changes Caused by Heat and Light 	iSEE Module: Physical world around us		iSEE Module: Environmental education 19. Interactions within ecosystems Youth Day - 1 Jul (Mon)	Buffer time [suggestion] <ul style="list-style-type: none"> Close learning gaps in term 3 Completion of workbook assignments 	
2	<ul style="list-style-type: none"> 18.3: Action of Acids on Metals and Carbonates 					Revision [suggestion] <ul style="list-style-type: none"> complete past year papers
3	<ul style="list-style-type: none"> 18.4: Properties of Acids 18.5: Properties of Alkalis 	13. Electrical systems [Practical] <ul style="list-style-type: none"> 13.1 - Setting Up a Circuit 13.2 - Measuring Electricity with Meters 13.3 - Measuring Resistance [Suggested activity] <ul style="list-style-type: none"> Looking at home electricity bill 		10. Transport system in living things [Practical] <ul style="list-style-type: none"> 10.1 - Quail Egg osmosis (long session; needs 24-hour observation) 10.2 - osmosis 10.3 - Coloured Carnation (recommended waiting time – 1 day) 	End Year Examinations (W4-5)	
4	14. Interactions through the application of forces [Practical] <ul style="list-style-type: none"> 14.1 - Measuring Forces 14.2 - Frictional Force 14.3 - Magnetic Force 14.4 – Pressure 					
5	Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed)		Good Friday – 19 Apr (Friday)			
6	15. Energy and work done [Practical] <ul style="list-style-type: none"> 15.1 - Energy and Work Done 15.2 - Energy Conversions 	Revision for MYE Labour Day – 1 May (Wed)		12. Human sexual reproductive system National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri)		
7	<ul style="list-style-type: none"> 15.3 - Sources of Energy Weighted Assessment	Mid Year Examinations (W7-8)		12. Human sexual reproductive system Hari Raya Haji – 11 Aug (Sun)	Post exam activities Last week of school Deepavali (off-in-lieu) - 28 Oct (Mon)	

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8	16. Effects of heat and its transmission [Practical] <ul style="list-style-type: none"> • 17.1 - Expansion of Solids and Liquids due to Heat • 17.2 - Expansion of Gases due to heat 			Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) National Day School Holiday?? – 13 Aug (Tue) [not sure!] Weighted Assessment	
9	<ul style="list-style-type: none"> • 17.3 - Investigating Application of Heat Transfer • 17.4 - Convection Currents • 17.5 - Radiation of Heat 	Post MYE <ul style="list-style-type: none"> • Review of MYE papers • Closing learning gaps for semester 1 		16. Transfer of sound energy through vibrations <ul style="list-style-type: none"> • 16.1 - Watching Sound vibration • 16.2 - Making Sounds 	
10	Buffer time [Suggestions] <ul style="list-style-type: none"> • Close learning gaps in term 1 • Revision of topics • Completion of workbook assignments 	Vesak Day (off-in-lieu) – 20 May			

NOTE: There is a Week 0 for 2019

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Sec 2E Science

Scheme of Work (Summary)

Updated 27 Dec 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> <i>(Week 1: Sec 2 Outdoor Camp)</i> C18 Chemical Changes	iSEE Module: Physical World Around Us		iSEE Moduel: Environmental Education/ C19: Interactions within Ecosystems	C16 Sound
2	C18 Chemical Changes	iSEE Module: Physical World Around Us		<i>Youth Day - 8 Jul (Mon)</i> iSEE Moduel: Environmental Education/ C19: Interactions within Ecosystems	EYE Revision
3	C18 Chemical Changes	Practical Test [Physics iSEE Formative Assessment] C13 Electrical Systems		C10 Transport in Living Things	EYE [C10, C11, C12, C13, C14, C15, C16, C17, C18, C19]
4	C14 Interactions through Applications of Forces	<i>Good Friday – 19 Apr (Friday)</i> C13 Electrical Systems		C10 Transport in Living Things	EYE
5	<i>Chinese New Year Celebrations – 4 Feb (Mon)</i> <i>Chinese New Year – 5-6 Feb (Tue-Wed)</i> C14 Interactions through Applications of Forces	C13 Electrical Systems		Class Test 2 [Interaction within Ecosystems, Transport System in Living Things] C11 Human Digestive System	Post - EYE
6	Class Test 1 [C18,C14] C14 Interactions through Applications of Forces	<i>Labour Day – 1 May (Wed)</i> MYE Revision		<i>National Day Celebrations - 8 Aug (Thur)</i> <i>National Day – 9 Aug (Fri)</i> C11 Human Digestive System	<i>(Last Day of School – 25 Oct)</i> Post - EYE
7	(WA Week) C15 Energy and Work Done	MYE [C18, C14, C15, C17, C13]		<i>Hari Raya Haji – 11 Aug (Sun)</i> <i>Hari Raya Haji (off-in-lieu) – 12 Aug (Mon)</i> (WA Week) (Common Test 2: C19, C10, C11) C11 Human Digestive System	<i>Deepavali (off-in-lieu) - 28 Oct (Mon)</i>
8	(WA Week) C15 Energy and Work Done	MYE		(WA Week) C12 Human Sexual Reproductive System	
9	(WA Week) (Common Test 1: C18,C14, C15) C17 Effects of Heat	<i>Vesak Day (off-in-lieu) – 20 May</i> <i>(Cross Country/ PTM)</i> Post - MYE		(WA Week) C12 Human Sexual Reproductive System	
10	C17 Effects of Heat	Post - MYE		<i>Teacher's Day Celerbration – 5 Sept</i>	

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				<i>Teacher's Day – 6 Sept</i> Class Test 3 [C11, C12] C16 Sound	
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NOTE: There is a Week 0 for 2019

Highlighted in Yellow: Use as a reference for Class Quiz & Weighted Assignment coverage.

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Sec 3T Science

Updated 19 Dec 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines) – Lab Safety Briefing</i> Chapter 6 – Sources of Food Theory: Revision qns MCQ (Pg 13-16) Practical: 6.1, 6.2	Chapter 1: Energy and Its Uses Theory: Pg 21 (graph) – 24 (Classwork) pg 13-20 (homework) Practical: 1.5		Chapter 4 – Electricity Theory: 4.7, 4.8 (class work) Pg 88 – 98 (Homework) Practical: 4.5, 4.6	Go through 3T MYE 2018 Homework: 3T CT 1 and CT 2 2018
2	Chapter 6 – Sources of Food Theory: 6.4, pg 17-22, 23-24	Chapter 2 – Energy Transfer through Waves Theory: 2.3, pg 31-33 (homework) Practical: 2.1		<i>Youth Day – 8 Jul (Mon)</i> Chapter 4 – Electricity Go through homework , corrections	Go through 3T CT 1 and CT 2 2018 Homework: EYE 2018
3	Class Quiz Chapter 6 (20 min) Chapter 7 – Food Chemistry Theory: 7.1 (Separation Techniques) Practical: 7.2, 7.3	Chapter 2 – Energy Transfer through Waves Theory: Pg 34-39 (classwork) Practical: 2.2		Class Quiz – chapter 4 (30 min) Chapter 5 – Sources of Electricity Theory: 5.3, 5.4 Practical: 5.1 (Comp lab), 5.2	Go through 3T EYE 2018
4	Chapter 7 – Food Chemistry Theory: Revision Questions: Pg 51-55 (Separation Techniques) Practical: 7.4, 7.5	<i>Good Friday – 19 Apr (Friday)</i> Class Quiz Chapter 2 (30 min) Chapter 3 – Effects of Forces Theory: 3.1 Practical: 3.2, 3.3		Chapter 5 – Sources of Electricity Theory: Pg 109 – 117 (homework)	
5	<i>Chinese New Year Celebrations – 4 Feb (Mon)</i> <i>Chinese New Year – 5-6 Feb (Tue-Wed)</i> Chapter 7 – Food Chemistry Theory: (Acids and neutralisation) 57, 62 (homework) Pg 56, 58, 59 – 61 (classwork) Practical: 7.6, 7.7, 7.8 (Graph)	Chapter 3 – Effects of Forces Theory: 3.6, 64,66,67(classwork) Pg 58-63, 68 (Homework) Practical: 3.4, 3.5, 3.7		Chapter 4 – Electricity Go through homework , corrections	EYE 2019 (55%)
6	Chapter 8: Food Health & Safety Theory: 8.1, 8.2, 8.3 (class) Practical: 8.4	<i>Labour Day – 1 May (Wed)</i> Revision for Unit Test 2: Chapter 1, 2 and 3 - Mindmapping, corrections		<i>National Day Celebrations - 8 Aug (Thur)</i> <i>National Day – 9 Aug (Fri)</i>	

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7	Chapter 8: Food Health & Safety Theory: 8.5, Pg 90-91 (class), 8.7, Pg 84-89, 92-93 (homework) Practical: 8.6	Unit Test 2 – Chapter 1, 2 and 3 (CA2)		Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) Revision for Unit Test	Deepavali (off-in-lieu) - 28 Oct (Mon)
8	Revision for Unit Test: Chapter 6, 7 and 8 - Mindmapping, corrections	Post – MYE??		Unit Test: Chapter 4 and 5 (CA3)	
9	Unit Test 1 – Chapter 6, 7 and 8 (CA1)	Vesak Day (off-in-lieu) – 20 May Chapter 4 – Electricity Theory: 4.1, Practical: 4.2, 4.3		Revision with Unit Test 1, 2 and 3	
10	Chapter 1: Energy and Its Uses Theory: 1.3, 1.4 (homework) Practical: 1.1, 1.2	Chapter 4 – Electricity Theory: Series and Parallel Circuits) Practical: 4.4		Holiday Assignment – 3T MYE 2018	

NOTE: There is a Week 0 for 2019

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Sec 3N Science (Biology)

Scheme of Work (Summary)

Updated 2 Nov 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> Chap 1: The Science of Life	Chap 4 & 5: Nutrients & Enzymes		Youth Day - 1 Jul (Mon) Chap 7: Nutrition in Plants	Revision Chap 1 to 7 & Chap 9
2	Chap 2: Cells	Chap 4 & 5: Nutrients & Enzymes		Chap 7: Nutrition in Plants	Revision Chap 1 to 7 & Chap 9
3	Chap 2: Cells	Chap 4 & 5: Nutrients & Enzymes		Chap 7: Nutrition in Plants	End-of-Year Examination: 55% (Chap 1 to 7 & Chap 9)
4	Chap 2: Cells	Good Friday – 19 Apr (Friday)		Chap 7: Nutrition in Plants Unit test 3 (Chap 7) [Formative]	End-of-Year Examination: 55% (Chap 1 to 7 & Chap 9)
5	Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed)	Chap 4 & 5: Nutrients & Enzymes		Chap 9: Transport in Plants	End-of-Year Examination: 55% (Chap 1 to 7 & Chap 9)
6	Chap 2: Cells Unit test 1 (Chap 1 & 2) [Formative]	Labour Day – 1 May (Wed) Unit test 2 (Chap 4 & 5) [Formative] Chap 6: Nutrition in Humans		National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri) Chap 9: Transport in Plants	Post-Exam Activities
7	Chap 3: Movement of Substances	Chap 6: Nutrition in Humans		Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) National Day School Holiday?? – 13 Aug (Tue) [not sure!] Chap 9: Transport in Plants	Deepavali (off-in-lieu) - 28 Oct (Mon) Post-Exam Activities
8	Chap 3: Movement of Substances	Chap 6: Nutrition in Humans		Chap 9: Transport in Plants	Post-Exam Activities
9	Chap 3: Movement of Substances Weighted assessment 1: 15% (Chap 3)	Vesak Day (off-in-lieu) – 20 May Chap 6: Nutrition in Humans Weighted assessment 2: 15% (Chap 6)		Chap 9: Transport in Plants Weighted assessment 3: 15% (Chap 9)	Post-Exam Activities
10	Chap 3: Movement of Substances Review of Weighted assessment 1	Chap 6: Nutrition in Humans		Chap 9: Transport in Plants Revision Chap 1 to 7 & Chap 9	

NOTE: There is a Week 0 for 2019

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Sec 3N Science (Chemistry)

Scheme of Work (Summary)

Updated 27 Dec 2018

Week	Term 1	Week	Term 2	Week	Term 3	Week	Term 4
1-3	<i>(Week 0: Setting Expectations & Routines, Build TS)</i> Introduce NA Sci(Chem Syllabus) and Assessment Schedule Kinetic Particle Theory *New Years' Day holiday @ 02/01/19	1-2	Atomic Structure	1-2	Chemical Calculations *Week 2: Youth Day Holiday @ 08/07	1-3	Revision *Class Test 4 @ week 1 (Acids, Bases and Oxides)
4	Measurement and Experimental Techniques	3-5	Chemical Bonding *Week 4: Good Friday @ 19/04 *Week 4: Class Test 3: EMC and Atomic Structures	3-5	Acids and Bases Reminder On Lab Safety *Class Test (CA 3) 3 @week4 (Writing Chemical equations and Chemical calculations)	4-5	EYE
5-7	Separation Techniques Introduce Lab Safety *Class Test 1(KPT)(CA1) @week 6 *Chinese New Year holidays@ 05/02, 06/02	6-8	Writing Chemical Equations *Week 6: Labour Day @ 01/05	6-9	Salts *National Day celebrations@ 08/08, National Day @09/08 Hari Raya Haji off-in-lieu 12/08	6-10	POST EXAM AND END OF SCHOOL Deepavali (off-in-lieu) - 28 Oct (Mon)

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8	Revision for CA2: Topics: KPT, Measurement and Experimental; Techniques and Separation Techniques	9-10	Chemical Calculations *Week 9: Vesak Day @ 20/05	10	Revision on ABS Class Test 4 @Term4 week 1 (Acids, Bases and Oxides) *Week10: Teachers' Day @06/09		
9-10	Go through CA2 and remediation on Selected Topics Elements Compounds and Mixtures						

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Sec 3E Chemistry

Scheme of Work (Summary)

Updated 24 Dec 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> Chapter 1: Kinetic Particle Theory	Chapter 6: Ionic Bonding		Chapter 12: Salts Youth Day - 1 Jul (Mon)	Chapter 10: Chemical Calculation
2	Chapter 1: Kinetic Particle Theory	Chapter 6: Ionic Bonding		Chapter 12: Salts	Revision
3	Chapter 2: Measurement and Experimental Techniques	Chapter 7: Covalent & Metallic Bonding		Chapter 12: Salts Practical Test	EYE
4	Chapter 3: Separation and Purification	Chapter 7: Covalent & Metallic Bonding Good Friday – 19 Apr (Friday)		Chapter 14: Metals	EYE
5	Chapter 3: Separation and Purification Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed)	Chapter 7: Covalent & Metallic Bonding		Chapter 14: Metals	Post-Exam Activities
6	Chapter 3: Separation and Purification	Chapter 8: Writing Chemical Equations Labour Day – 1 May (Wed)		Chapter 14: Metals National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri)	Post-Exam Activities
7	Chapter 4: Elements, Mixtures and Compounds CA 1 [KPT, Expt Techniques, Separation]	Chapter 8: Writing Chemical Equations CA 2 [ECM, AS, Ionic, Covalent & Metallic Bonding]		Chapter 9: The Mole (Mole, molar mass) CA 3 [ABS, Metals] Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) National Day School Holiday?? – 13 Aug (Tue) [not sure!]	Start of School Holidays Deepavali (off-in-lieu) - 28 Oct (Mon)
8	Chapter 4: Elements, Mixtures and Compounds	Chapter 11: Acids and Bases		Chapter 9: The Mole (Mole, molar mass)	
9	Chapter 5: Atomic Structure	Chapter 11: Acids and Bases		Chapter 10: Chemical Calculation	

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		Vesak Day (off-in-lieu) – 20 May			
10	Chapter 5: Atomic Structure	Chapter 11: Acids and Bases		Chapter 10: Chemical Calculation	

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Sec 3E Pure Physics

Scheme of Work (Summary)

Updated 27 Dec 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines) (Sec 3 Cohort Camp)</i> C1: Physical Quantities, Units and Measurement	C5: Turning Effects of Forces		C9: Kinetic Model of Matter	Class Test 4: C9 & C10 Revision for EYE Buffer Time for Practical
2	C1: Physical Quantities, Units and Measurement (Introduce Practical)	C5: Turning Effects of Forces		<i>Youth Day - 8 Jul (Mon)</i> Class Test 3: Practical Test C9: Kinetic Model of Matter	Revision for EYE
3	C2: Kinematics	C5: Turning Effects of Forces		C8: Temperature	(EYE-1-4 Oct)(C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11)
4	C2: Kinematics	<i>Good Friday – 19 Apr (Friday)</i> Class Test 2: C4 & C5 C6: Energy, Work and Power		C8: Temperature	(EYE)
5	<i>Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed)</i> C2: Kinematics	C6: Energy, Work and Power Buffer Time for Practical		C10: Transfer of Thermal Energy Buffer Time for Practical	<i>(Checking & Feedback EYE)</i>
6	Class Test 1: C1 & C2 C3: Forces	<i>Labour Day – 1 May (Wed)</i> C6: Energy, Work and Power		<i>National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri)</i> C10: Transfer of Thermal Energy	<i>(Last Day of School – 25 Oct)</i>
7	(WA Week) C3: Forces	(WA Week) (Week 7: MYE) (C1, C2, C3, C4, C5, C6) C7: Pressure		<i>Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon)</i> (WA Week) (CT2: C7, C8) C10: Transfer of Thermal Energy	<i>Deepavali (off-in-lieu) - 28 Oct (Mon)</i> HeadStart Programme: C12- General Wave Properties C14- Electromagnetic Waves C15- Sound

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

8	<i>(WA Week)</i> CT1: C1, C2,C3 C3: Forces Buffer time for Practical	<i>(WA Week) (13-15 May: MYE)</i> <i>(16 May: Marking Day, 17 May: Check Script)</i> C7: Pressure		<i>(WA Week)</i> C11: Transfer Properties of Matter	HeadStart Programme: C12- General Wave Properties. C14- Electromagnetic Waves C15- Sound
9	<i>(WA Week)</i> C4: Mass, Weight & Density	<i>Vesak Day (off-in-lieu) – 20 May (Cross Country/ PTM)</i> <i>Post MYE</i>		<i>(WA Week)</i> C11: Transfer Properties of Matter	
10	C4: Mass, Weight & Density	<i>Post MYE</i>		<i>Teacher's Day Celerbration – 5 Sept Teacher's Day – 6 Sept</i> C11: Transfer Properties of Matter	

NOTE: There is a Week 0 for 2019

Highlighted in Yellow: Use as a reference for Class Quiz & Weighted Assignment coverage.

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

Sec 3E Science (Physics)

Scheme of Work (Summary)

Updated 26 Dec 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> C1 Physical Quantities, Units and Measurement	C4 Mass, Weight and Density		C8 Kinetic Model of Matter Youth Day - 1 Jul (Mon)	C11 General Wave Properties
2	C1 Physical Quantities, Units and Measurement	C4 Mass, Weight and Density		C8 Kinetic Model of Matter	Revision
3	C1 Physical Quantities, Units and Measurement	C5 Turning Effect of Forces Class Test: Chapter 3 and 4		C9 Transfer of Thermal Energy Class Test: Kinetic Model of Matter	Revision
4	C2 Kinematics Class Test : Chaper 1 (15m)	C5 Turning Effect of Forces Good Friday – 19 Apr (Friday)		C9 Transfer of Thermal Energy	END OF YEAR EXAMS
5	C2 Kinematics Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed)	C5 Turning Effect of Forces		C9 Transfer of Thermal Energy	END OF YEAR EXAMS
6	C2 Kinematics	C6 Pressure Labour Day – 1 May (Wed)		C10 Thermal Properties of Matter National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri)	END OF YEAR EXAMS
7	C3 Dynamics WA: Chapter 1 & 2	C7 Energy, Work and Power WA: Dynamics & Pressure & Turning Effects of Forces		C10 Thermal Properties of Matter WA: Kinetic Model & Transfer of Thermal Energy Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) National Day School Holiday?? – 13 Aug (Tue) [not sure!]	Post Exam Activities

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

8	C3 Dynamics	C7 Energy, Work and Power		C10 Thermal Properties of Matter	
9	C3 Dynamics	C7 Energy, Work and Power Vesak Day (off-in-lieu) – 20 May		C11 General Wave Properties	
10	C4 Mass, Weight and Density	Revision		C11 General Wave Properties	

NOTE: There is a Week 0 for 2019

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

Sec 3NA Science (Physics)

Scheme of Work (Summary)

Updated 26 Dec 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> C1 Physical Quantities, Units and Measurement	C4 Mass, Weight and Density		C8 Kinetic Model of Matter Youth Day - 1 Jul (Mon)	Revision
2	C1 Physical Quantities, Units and Measurement	C4 Mass, Weight and Density		C8 Kinetic Model of Matter	Revision
3	C1 Physical Quantities, Units and Measurement	C5 Turning Effect of Forces Class Test: Chapters 3 & 4		C9 Transfer of Thermal Energy Class Test: Chapter 8	Revision
4	C2 Kinematics Class Test 1: Chapter 1	C5 Turning Effect of Forces Good Friday – 19 Apr (Friday)		C9 Transfer of Thermal Energy	END OF YEAR EXAMS
5	C2 Kinematics Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed)	C5 Turning Effect of Forces		C9 Transfer of Thermal Energy	END OF YEAR EXAMS
6	C2 Kinematics	C6 Pressure Labour Day – 1 May (Wed)		C10 Thermal Properties of Matter National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri)	END OF YEAR EXAMS
7	C3 Dynamics WA: Chapter 1 & 2	C7 Energy, Work and Power WA: Chapters 3 and 5 - Dynamics & Turning Effects of Forces		C10 Thermal Properties of Matter WA: Kinetic Model & Transfer of Thermal Energy Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) National Day School Holiday?? – 13 Aug (Tue) [not sure!]	Post Exam Activities

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Scheme of Work 2019**

8	C3 Dynamics	C7 Energy, Work and Power		C10 Thermal Properties of Matter	
9	C3 Dynamics	C7 Energy, Work and Power Vesak Day (off-in-lieu) – 20 May		Revision	
10	C4 Mass, Weight and Density	Revision		Revision	

NOTE: There is a Week 0 for 2019

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

Sec 4NT Science

Scheme of Work (Summary)

Updated 27 Dec 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines) (Sec 4/5 Motivational Workshop)</i> C9: Digestion	C12: Staying Healthy		Revision for Prelim	(N-Level)
2	C9: Digestion	C12: Staying Healthy		<i>Youth Day - 8 Jul (Mon)</i> Revision for Prelim	(N-Level- 23-25 Sept)
3	C9: Digestion	C12: Staying Healthy		Revision for Prelim	Revision for N Level
4	C10: Breathing	<i>Good Friday – 19 Apr (Friday)</i> C12: Staying Healthy Class Test 2: C11, C12		Revision for Prelim	(N Level)
5	<i>Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed)</i> C10: Breathing	Revision for MYE		Revision for Prelim	(N Level)
6	Revision for WA Class Test 1: C9	<i>Labour Day – 1 May (Wed)</i> Revision for MYE		<i>National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri)</i> Revision for Prelim	<i>(Last Day of School – 25 Oct)</i>
7	(WA Week) C11: Fitness & Cardiac Health	(Week 7: MYE: C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12)		<i>Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon)</i> (N Lvl Prelim: C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12)	<i>Deepavali (off-in-lieu) - 28 Oct (Mon)</i>
8	(WA Week) C11: Fitness & Cardiac Health	(13-15 May: MYE) <i>(16 May: Marking Day, 17 May: Check Script)</i>		(N Lvl Prelim)	
9	(WA Week) (CT1: C9, C10) C11: Fitness & Cardiac Health	<i>Vesak Day (off-in-lieu) – 20 May (Cross Country/ PTM)</i>		Go through Prelim paper	
10	C11: Fitness & Cardiac Health	Post- MYE		<i>Teacher's Day Celerbration – 5 Sept Teacher's Day – 6 Sept</i>	

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

NOTE: There is a Week 0 for 2019

Highlighted in Yellow: Use as a reference for Class Quiz & Weighted Assignment coverage.

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

Sec 4N Science (Biology)

Scheme of Work (Summary)

Updated 2 Nov 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> U7: Transport in Humans	U9a: Reproduction in Animals		Youth Day - 1 Jul (Mon) Revision U1 to U9b	Revision U1 to U9b
2	U7: Transport in Humans	U9a: Reproduction in Animals		Revision U1 to U9b	Revision U1 to U9b
3	U7: Transport in Humans	U9a: Reproduction in Animals		Revision U1 to U9b	N Levels
4	U7: Transport in Humans Unit test 1 (U7) [Formative]	Good Friday – 19 Apr (Friday) U9a: Reproduction in Animals Unit test 2 (U9a) [Formative]		Revision U1 to U9b	N Levels
5	Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed) U8: Respiration	U9b: Reproduction in Plants		Revision U1 to U9b	N Levels
6	U8: Respiration	Labour Day – 1 May (Wed) U9b: Reproduction in Plants		National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri) Prelims: 55% (U1 to U9b)	N Levels
7	U8: Respiration	U9b: Reproduction in Plants		Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) National Day School Holiday?? – 13 Aug (Tue) [not sure!] Prelims: 55% (U1 to U9b)	Deepavali (off-in-lieu) - 28 Oct (Mon)
8	U8: Respiration	Mid-Year Examination: 30% (U8, U9a + U9b)		Prelims: 55% (U1 to U9b) Review of Prelims	
9	Weighted assessment 1: 15% (U8)	Vesak Day (off-in-lieu) – 20 May Mid-Year Examination: 30% (U8, U9a + U9b)		Review of Prelims Revision U1 to U9b	
10	Review of Weighted assessment 1 U9a: Reproduction in Animals	Post-Exam Activities Review of Mid-Year Examination		Revision U1 to U9b	

NOTE: There is a Week 0 for 2019

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

Sec 4NA Science (Physics)

Scheme of Work (Summary)

Updated 9 Nov 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> Chapter 10: Waves	Chapter 13: Current Electricity		Youth Day - 1 Jul (Mon) Chapter 15: Practical Electricity	N-Level Examinations
2	Chapter 10: Waves	Chapter 14: D. C. Circuits		Chapter 15: Practical Electricity	N-Level Examinations
3	Chapter 10: Waves	Chapter 14: D. C. Circuits		Revision	Revision
4	Chapter 11: Electromagnetic Waves	Good Friday – 19 Apr (Friday) Chapter 14: D. C. Circuits		Revision	N-Level Examinations
5	Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed) Chapter 11: Electromagnetic Waves	Class Test 3 (C13 & C14) Revision		Prelim Examinations	N-Level Examinations
6	Class Test 1 (C9 & C10) Chapter 11: Electromagnetic Waves	Labour Day – 1 May (Wed) Revision		National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri) Prelim Examinations	
7	Chapter 12: Sound	Mid-Year Examinations		Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) Go through Prelim paper	Deepavali (off-in-lieu) - 28 Oct (Mon)
8	Chapter 12: Sound	Mid-Year Examinations		Go through Prelim paper	Sec 4N Headstart
9	Chapter 13: Current Electricity	Vesak Day (off-in-lieu) – 20 May Mid-Year Examinations		Revision	Sec 4N Headstart
10	Class Test 2 (C11 & C12) Chapter 13: Current Electricity	Go through MYE paper		Revision	

NOTE: There is a Week 0 for 2019

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

Sec 4E Chemistry

Scheme of Work (Summary)

Updated 24 Dec 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> Chapter 12: Qualitative Analysis (12.3)	Chapter 18: Speed of reaction		Chapter 23: Alcohol and Carboxylic Acids Youth Day - 1 Jul (Mon)	Revision
2	Chapter 12: Qualitative Analysis (12.3)	Chapter 18: Speed of reaction		Chapter 23: Alcohol and Carboxylic Acids Unit Test 7 [C6]	Revision
3	Chapter 14: Metals	Chapter 19: Ammonia Practical Test		Chapter 24: Macromolecules	Revision
4	Chapter 14: Metals	Chapter 20: The Atmosphere and the Environment Good Friday – 19 Apr (Friday)		Chapter 24: Macromolecules	Revision
5	Chapter 14: Metals Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed)	Chapter 21: An Introduction to Organic Chemistry		Revision Practical Test 2	Revision
6	Chapter 13: Oxidation and Reduction	Revision Labour Day – 1 May (Wed)		Revision	Revision
7	Chapter 15: Electrolysis CA 1 [KPT, Expt Techniques, Separation]	MYE		Revision	Start of School Holidays Deepavali (off-in-lieu) - 28 Oct (Mon)
8	Chapter 15: Electrolysis	MYE		Revision	
9	Chapter 15: Electrolysis	Chapter 22: Alkanes and Alkenes Vesak Day (off-in-lieu) – 20 May		Preliminary Examinations	
10	Chapter 17: Energy Changes	Chapter 22: Alkanes and Alkenes		Preliminary Examinations	

NOTE: There is a Week 0 for 2019

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

Sec 4E Pure Physics

Scheme of Work (Summary)

Updated 2 Nov 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> C15 – Sound	C18 – D.C. Circuits		C22 – Electromagnetic Induction Youth Day - 1 Jul (Mon)	Revision – Other School Papers
2	C13 – Light – Reflection	C18 – D.C. Circuits		C22 – Electromagnetic Induction	Revision – Other School Papers
3	C13 – Light – Reflection/Refraction	C19 – Practical Electricity Class Test 1 – Static Electricity/DC Circuits		Revision – Past Year O Level Papers Revision – Practical	Revision – Other School Papers
4	C13 – Light – Refraction Class Test 1 – Sound/Reflection/Refraction	C19 – Practical Electricity Good Friday – 19 Apr (Friday)		Revision – Past Year O Level Papers Revision – Practical	Revision – Other School Papers
5	C13 – Light – Refraction/Lens Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed)	C19 – Practical Electricity		Revision – Past Year O Level Papers Revision – Practical	Revision – Other School Papers
6	C13 – Light – Lens	C20 - Magnetism Labour Day – 1 May (Wed)		Revision – Past Year O Level Papers Revision – Practical National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri)	Revision – Other School Papers
7	C16 – Static Electricity WA: Waves (Waves, EM Spectrum, Sound, Light)	Mid-Year Exams Chapters 1-7 (Newtonian Mechanics) Chapters 12-16 – Waves Chapters 17-19 - Electricity		Revision – Past Year O Level Papers Revision – Practical Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon)	O LEVELS Deepavali (off-in-lieu) - 28 Oct (Mon)

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

				National Day School Holiday?? – 13 Aug (Tue) [not sure!]	
8	C16 – Static Electricity	Mid-Year Exams		Revision – Past Year O Level Papers Revision – Practical	O LEVELS
9	C17 – Current Electricity	C21 - Electromagnetism Vesak Day (off-in-lieu) – 20 May		O LEVEL PRELIMS	O LEVELS
10	C17 – Current Electricity	C21 - Electromagnetism		O LEVEL PRELIMS	

NOTE: There is a Week 0 for 2019

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

Sec 4E SciPhysics

Scheme of Work (Summary)

Updated 26 Dec 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> Topic 12: Light - Reflection	Topic 15: Static Electricity		Youth Day - 1 Jul (Mon) Topic 19: Magnetism and Electromagnetism	Prelimin
2	Topic 12: Light – Reflection and Refraction Practical 1: 2007 (Refraction)	Topic 16: Current of Electricity Practical 5: 2005 (Mechanics: Ramp)		Topic 19: Magnetism and Electromagnetism	Revision – Other School Prelim Paper
3	Topic 12: Light – Refraction and Total Internal Refraction	Topic 16: Current of Electricity		Topic 19: Magnetism and Electromagnetism	Revision – Other School Prelim Paper
4	Topic 12: Light – Total Internal Refraction Practical 2: 2015 (Lenses)	Good Friday – 19 Apr (Friday) Topic 17: D.C. Circuits		Revision – Sec 3 Topics	Revision – Other School Prelim Paper
5	Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed) Topic 12: Light - Lens	Topic 17: D.C. Circuits Practical 6: 2009 (Electricity)		Revision – Sec 4 Topics Mock Practical Exam (Practical 9: 2010 (Mechanics: Rate of flow Burette qn)) O Levels 2012 Paper (Homework O Levels 2011 Paper)	O Level Practical
6	Topic 12: Light - Lens	Labour Day – 1 May (Wed) Topic 18: Practical Electricity		National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri) Revision – Sec 4 Topics Mock Practical Exam (Practical 9: 2010 (Mechanics: Rate of flow Burette qn)) O Levels 2012 Paper (Homework O Levels 2011 Paper)	O Level Written
7	Topic 14: Sound Practical 3: 2012	Topic 18: Practical Electricity Practical 7: 2016		Hari Raya Haji – 11 Aug (Sun)	Deepavali (off-in-lieu) - 28 Oct (Mon)

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Science Department
Scheme of Work 2019**

	(Waves: Refraction apparent and real depth)	(Electricity: Resistance of nichrome wire)		Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) National Day School Holiday?? – 13 Aug (Tue) [not sure!] O Levels 2014 Paper (Homework O Levels 2009 Paper)	O Level Written
8	Topic 14: Sound	Topic 18: Practical Electricity		O Levels 2015 Paper (Homework O Levels 2008 Paper)	O Level Written
9	Topic 15: Static Electricity Practical 4: 2013 (Waves: Depth and speed of waves)	Vesak Day (off-in-lieu) – 20 May Topic 18: Practical Electricity		O Levels 2015 Paper (Homework O Levels 2008 Paper)	O Level Written
10	Topic 15: Static Electricity	[Students to complete 2 Prelim Papers from other schools during June holidays]		Prelimin	

NOTE: There is a Week 0 for 2019

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

Sec 4E Science (Chemistry)

Scheme of Work (Summary)

Updated 27 Dec 2018

Week	Term 1	Week	Term 2	Week	Term 3	Week	Term 4
1-3	<i>(Week 0: Setting Expectations & Routines, Build TS)</i> Chemical Analysis *New Years' Day holiday @ 02/01/19	1-2	Redox Reactions	1	Alkenes (Polymerisation)	1-4	Revision
4-5	Metals *Chinese New Year holidays @ 05/02, 06/02	3	The Atmosphere and Environment	2-3	Alcohols and Carboxylic acids *Youth Day Holiday @ 08/07		
6	Energy Changes *Class Test 1 @week 6 : Chemical Analysis and Metals	4	Introduction to Organic Chemistry *Good Friday @ 19/04	4-7	Prelims Revision *Week6: National Day celebrations @ 08/08, National Day @09/08 Week7: Hari Raya Haji off-in-lieu 12/08		
7	Revision for common test Topics: Chemical Analysis, Metals and Energy Changes	5	Alkanes *Class Test 2 @week 5 : Speed of reaction, Redox reactions and The Atmosphere and Environment	8-10	Prelims *Teachers' Day @06/09		

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

8	Common Test 1	6	Alkenes(Structure & Properties)				
9-10	Speed of Reaction	7	Revision				
		8	MYE				
		9-10	Corrections for MYE and Post Exam *Vesak Day @ 20/05				

NOTE: There is a Week 0 for 2019

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

Sec 4E Science (Biology)

Scheme of Work (Summary)

Updated 7 Nov 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	(Week 0: Setting Expectations & Routines) The Human Eye <ul style="list-style-type: none"> [Practical] Expt 10.1 [Demo] Expt 10.2 	Molecular Genetics <ul style="list-style-type: none"> [Practical – optional] Expt 12.1 	Headstart [Practical] Recap of basic skills	Revision Youth Day - 1 Jul (Mon) [Suggestion] To use some of the 1-hour lessons/ASP(if applicable) for practical sessions using practical TYS	Revision [Suggestion] Greater emphasis on practical skills in preparation for practical examination in October
	2			Hormones <ul style="list-style-type: none"> [Theory Workbook] Co-ordination and response 	Revision
3	Reproduction in Plants <ul style="list-style-type: none"> [Practical] Expt 11.1 [Practical] Expt 11.2 	Ecology <ul style="list-style-type: none"> [Practice] Drawing of food chain, pyramids of numbers/ biomass using TYS questions Good Friday – 19 Apr (Friday)		Revision	Revision
4				Revision	Revision Commencement Ceremony
5	Reproduction in Humans Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed)	Impacts on the Ecosystem Completion of syllabus		Revision [Suggestion] Mock paper	
6		Practical ‘Test’ <ul style="list-style-type: none"> Topic to be confirmed by level teachers Labour Day – 1 May (Wed)		Revision National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri)	
7	CA1 – Weighted Assessment <ul style="list-style-type: none"> The Human Eye Hormones Reproduction in Plants Reproduction in Humans 	Mid-Year Examinations (Week 7 – 9)		Revision [Suggestion] Mock paper Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) National Day School Holiday?? – 13 Aug (Tue) [not sure!]	Deepavali (off-in-lieu) - 28 Oct (Mon)
8	Post –Common Test <ul style="list-style-type: none"> Review of common test paper 			Preliminary Examinations	

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

	<ul style="list-style-type: none"> Completing workbook exercises on chapters taught 				
9	Heredity	Vesak Day (off-in-lieu) – 20 May		Revision	
10	<ul style="list-style-type: none"> [Practice] Drawing of genetic diagrams using TYS questions 	Review of MYE Paper		<ul style="list-style-type: none"> Review of prelim papers (including practical paper) 	

NOTE: There is a Week 0 for 2019

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

Sec 5N Science (Chemistry)

Scheme of Work (Summary)

Updated 19 Dec 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> Introduce "O" Level Sci Chemistry Syllabus and Assessment Schedule Revision: Writing Chemical Equations	Speed of reactions Speed of reaction applets by Phet Stimulations	Lab Practicals – 2 past year Paper 5 (2011, 2012)	<i>Youth Day - 1 Jul (Mon)</i> Organic Chemistry – alcohols and carboxylic acids	Revision of chapt. 1-5 Kinetic Particle Theory Experimental Techniques Elements, Compounds, Mixtures Separation and Purification Atomic Structure
	Revision: Acids Bases & Salts Preparation	Speed of reactions Speed of reaction applets by Phet Stimulations EXPT: Exp. 14, 15, 16 (station exercise) – pref. aft. School with data loggers (2 hours)		Organic Chemistry – alcohols and carboxylic acids	Revision of chapt. 6 – 10 Chemical bonding Writing chemical equations The mole Chemical calculations Acids and bases Mock exam 1 (Other School Prelim 2018) (mon /tues)
3	Revision: Acids Bases & Salts Preparation Class Test 1: ABS (last lesson)	Redox and energy changes Intro to redox: https://www.youtube.com/watch?v=NaGQ9VI5mwg Fuse school videos (you tube) https://www.youtube.com/watch?v=eJXL0IrbtqE EXPT: effects of oxidizing and reducing agents with KI and KMnO ₄		Organic Chemistry – alcohols and carboxylic acids	Revision of chapt. 11 – 15 Salts Redox Metals Periodic Table Energy Changes
	Qualitative Analysis – Expt: cation test & gas test	Good Friday – 19 Apr (Friday) Class test 3: QA, Speed of reactions, Redox, energy changes		Organic Chemistry- Class Test 4: Organic chemistry (ch. 7, 8, 18)	Revision of chapt. 16 – 20 Atmosphere and Environment Organic chemistry

**Yuhua Secondary School
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5	<p>Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed)</p> <p>Qualitative Analysis -expt: anion tests -Demo: test for oxidizing / reducing agents</p>	<p>Revision for MYE</p> <ul style="list-style-type: none"> - Periodic Table - Air and atmosphere - Intro to chemistry - alkanes 		<p>Revision for prelim YHSS Prelim papers 2018, 2017</p>	
6	<p>Qualitative Analysis EXPT: TYS 2013</p>	<p>Labour Day – 1 May (Wed) MYE (30%) Chapter 7: Mole Concept Chapter 11.3: Chemical Analysis Chapter 14 : The Periodic Table Chapter 16: Speed of Reaction Chapter 15: Energy Changes Chapter 12 : Oxidation and Reduction Chapter 17 : Atmosphere and Environment Chapter 18 : An Introduction to Organic Chemistry Chapter 19 : Alkanes</p>		<p>National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri) Revision for prelim Other school Prelim papers 2018</p>	
7	<p>CA1 – Weighted class Test (15%)</p> <ul style="list-style-type: none"> - ABS - Chemical Equations - QA 	<p>MYE (30%)</p>		<p>Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) National Day School Holiday?? – 13 Aug (Tue) [not sure!] Prelim Exams (55%)</p>	<p>Deepavali (off-in-lieu) - 28 Oct (Mon)</p>
8	<p>Chemical calculations EXPT: TYS 2009</p>	<p>Go through MYE</p>		<p>Prelim Exams (55%)</p>	
9	<p>Chemical calculations - Concentration Applet by Phet Stimulations. EXPT: TYS 2010</p>	<p>Vesak Day (off-in-lieu) – 20 May Revision: Intro to Organic Chemistry</p>		<p>Go through Prelim papers</p>	

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Science Department
Scheme of Work 2019**

10	Chemical calculations Class Test 2: chemical Calculations	Revision: Organic Chemistry (Alkenes)			
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NOTE: There is a Week 0 for 2019

**Yuhua Secondary School
Science Department
Scheme of Work 2019**

Sec 3E Science (Physics)

Scheme of Work (Summary)

Updated 2 Nov 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	(Week 0: Setting Expectations & Routines) The Nervous System <ul style="list-style-type: none"> [Class Activity] Reflex action, reaction time 	Ecology <ul style="list-style-type: none"> [Practice] Drawing of food chain, pyramids of numbers/ biomass using TYS questions 		Revision Youth Day - 1 Jul (Mon)	Revision
2		Impacts on the Ecosystem Completion of syllabus		Revision	Revision
3	The Human Eye <ul style="list-style-type: none"> [Practical] Expt 10.1 [Demo] Expt 10.2 	Revision <ul style="list-style-type: none"> [Suggestion] To use some of the 1-hour lessons/ASP (if applicable) for practical sessions using practical TYS 		Revision	Revision
4		Revision Good Friday – 19 Apr (Friday)		Revision	Revision Commencement Ceremony
5	Hormones <ul style="list-style-type: none"> [Theory Workbook] Co-ordination and response 	Revision		Revision	
6	Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed)	Revision Labour Day – 1 May (Wed)		Revision National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri)	
7	Heredity <ul style="list-style-type: none"> [Practice] Drawing of genetic diagrams using TYS questions CA1 – Weighted Assessment - The Nervous System - The Human Eye - Hormones	Mid-Year Examinations (Week 7 – 9)		Revision Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) National Day School Holiday?? – 13 Aug (Tue) [not sure!]	Deepavali (off-in-lieu) - 28 Oct (Mon)
8				Preliminary Examinations	

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9	Molecular Genetics <ul style="list-style-type: none"> • [Practical – optional] Expt 12.1 	Vesak Day (off-in-lieu) – 20 May			
10		Revision		Revision Review of prelim papers (including practical paper)	

NOTE: There is a Week 0 for 2019

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Sec 5NA Science (Physics)

Scheme of Work (Summary)

Updated 26 Dec 2018

Week	Term 1	Term 2	Jun Hols	Term 3	Term 4
1	<i>(Week 0: Setting Expectations & Routines)</i> C12 Light – Reflection	C19 Magnetism & Electromagnetism		Revision: Electricity & Magnetism (Topical TYS) Youth Day - 1 Jul (Mon)	Revision – Other School Papers
2	C12 Light – Reflection/Refraction	C19 Magnetism & Electromagnetism		Revision: Electricity & Magnetism (Topical TYS)	Revision – Other School Papers
3	C12 Light – Refraction	C19 Magnetism & Electromagnetism		Revision: Past-Year O Level Paper	Revision – Other School Papers
4	C12 Light – Refraction/Lens Class Test – Reflection/Refraction	C19 Magnetism & Electromagnetism Class Test – Magnetism & Electromagnetism Good Friday – 19 Apr (Friday)		Revision: Past-Year O Level Paper	Revision – Other School Papers
5	C12 Light - Lens Chinese New Year Celebrations – 4 Feb (Mon) Chinese New Year – 5-6 Feb (Tue-Wed)	Revision: Mechanics (Topical TYS)		Revision: Past-Year O Level Paper	Revision – Other School Papers
6	C15 Static Electricity	Revision: Thermal (Topical TYS) Labour Day – 1 May (Wed)		Revision: Past-Year O Level Paper National Day Celebrations - 8 Aug (Thur) National Day – 9 Aug (Fri)	Revision – Other School Papers
7	C15 Static Electricity WA: Light	Mid-Year Exams Chapter 1: Physical Quantities, Units and Measurement Chapter 2: Kinematics Chapter 3: Dynamics Chapter 4: Mass, weight density		Revision: Past-Year O Level Paper Hari Raya Haji – 11 Aug (Sun) Hari Raya Haji (off-in-lieu) – 12 Aug (Mon) National Day School Holiday?? – 13 Aug (Tue) [not sure!]	Revision – Other School Papers

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		Chapter 5: Turning Effect of Forces Chapter 6: Pressure Chapter 7: Energy, Work and Power Chapter 11: General Wave Properties Chapter 12: Light Chapter 13: Electromagnetic Spectrum Chapter 14: Sound Chapter 15: Static Electricity Chapter 16: Current of Electricity Chapter 17: DC Circuit			
8	C15 Static Electricity	Mid-Year Exams		Revision: Past-Year O Level Paper	
9	Revision: Waves	Revision: Mechanics (Topical TYS) Vesak Day (off-in-lieu) – 20 May		O Level Prelims	
10	Revision: Electricity	Revision: Mechanics (Topical TYS)		O Level Prelims	

NOTE: There is a Week 0 for 2019