

YISHUN SECONDARY SCHOOL

Subject & Code: **Pure Chemistry 6092**

Level & Stream: **Sec 4E (Express), G3 / Year 2024**

The Curriculum and Approaches to Learning		Key Programmes / Competitions
To cultivate the joy of learning Science by developing students' knowledge, skills and attitudes in scientific-thinking through a well-designed curriculum that focuses on scientific inquiry and authentic learning. To prepare students for a life-long passion in learning Science and enable them to innovate and contribute to a technologically-driven society.		Selected school competitions and enrichment programmes
Term / Week	Learning Experiences (chapter, activity)	Learning Outcomes & Assessment
1/1-2	Ch 11: Qualitative Analysis Practical (during lesson) <ul style="list-style-type: none"> Tests for gases, cations and anions 	W1: Back To School Program W7: 12 – 13 Feb (CNY)
1/3-4	Ch 12: Oxidation and Reduction Practical (during lesson) <ul style="list-style-type: none"> Test for redox reagents 	W9: WA1 – Ch 11, 12 & 15
1/5-7	Ch 15: The Reactivity Series Practical (during lesson) <ul style="list-style-type: none"> Metal displacement (using well plates) 	
1/8-10	Ch 3: Electrochemistry Practical (during lesson) <ul style="list-style-type: none"> Electrochemistry and electroplating (using well plates) (during lesson) 	
Hol HW	Topical TYS (The Reactivity Series & Electrochemistry) Practical 1: Titration 1 (neutralisation) Practical 2: Titration 2 (redox 1) Practical 3: Titration 3 (redox 2) All practicals: 1hr 30min	
2/1-2	Ch 16: Chemical Energetics	W2: 29 Mar (Good Friday)
2/3-4	Ch 17: Rate of Reactions	W4: 10 Apr (Hari Raya Puasa)
2/5	Ch 18: Fuels and Crude Oil (HBL)	W5: 14 – 19 Apr (YSS Learning Festival)
2/6-7	Ch 19: Hydrocarbons	W7: 1 May (Labour Day)
2/8	Ch 20: Alcohols, Carboxylic Acids and Esters	W10: 23 May (Vesak Day) / MTL Intensive
2/9	Ch 21: Polymers	
2/10	MT Intensive	
Hol HW	Ch 22 Maintaining Air Quality (SLS) & 2024 Specimen Paper P2 Practical 4: Chemical Energetics (acid + alkali) Practical 5: Chemical Energetics (acid + metal) Practical 6: Rate of Reaction All practicals: 1hr 30min June Holidays:	W7: WA2 – Ch 8, 9, 11, 12, 13, 15 & 16

	Practical 7: 2023 P3 (without planning) Practical 8: 2019 P3 (without planning) All practicals: 1h 30 min	
3/1-2 3/3 3/4 3/5 3/6 3/7-10	Ch 22 Maintaining Air Quality & Planning 2024 Specimen Paper 2021 TYS P2 2022 TYS P2 2023 TYS P1 and P2 Prelim Practical & Written Exam Practical 9: 2021 P3 Practical 10: 2022 P3 All practical: 2 hr	W2: 1 Jul (Youth Day) W5: 23-25 July HBL (GCE Oral Exams) W7: 8 - 9 Aug (National Day) W10: 29-30 Aug (Teachers' Day Celebration and Teachers' Day) W3: WA3 – Ch 17 to 21 Prelim: All Chapters
4/1-2 4/3 4/4	Script Check Practical 11: 2020 P3 2019 P1 and P3 2018 P1 and P3	