YISHUN SECONDARY SCHOOL
Subject & Code: **Pure Chemistry 6092**
Level & Stream: **Sec 4E (Express), G3**

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. All class structured group work develops communication competency. All data based and planning questions develop adaptive thinking competency.
Term / Week	**Learning Experiences (chapter, activity)**	**Assessment & Events**
1/1-2 1/3-6 1/7-9 1/10 Hol HW	Ch 12: Oxidation and Reduction Practical (during lesson) • Test for redox reagents Ch 15: The Reactivity Series Practical (during lesson) • Metal displacement (using well plates) Ch 13: Electrochemistry Practical (during lesson) • Electrochemistry and electroplating (using well plates) Ch 11: Qualitative Analysis Practical (during lesson) • Tests for gases, cations and anions 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	W1: Back To School Program W4: CNY Celebration 28 /01 (Tue) CNY 29/01 (Wed), 30/01 (Thu) WA1: 3-7 Mar, T1W9 Topics: Ch 7, 12, 15 and 17 (45 min)
2/1 2/2-3 2/4-5 2/6 2/7-8 2/9 2/10 Hol HW	Ch 11: Qualitative Analysis Ch 16: Chemical Energetics Practical (during lesson) • Investigate heat of neutralisation *Ch 18: Fuels and Crude Oil (HBL) Ch 19: Hydrocarbons Ch 20: Alcohols, Carboxylic Acids and Esters Ch 21: Polymers MT Intensive Ch 22 Maintaining Air Quality (SLS) & 2024 Specimen Paper P2	W2: Hari Raya Puasa 31/03 (Mon) W4: Good Friday 18/04 (Fri) W6: Labour Day 01/05 (Thu) W8: Vesak Day 12/05 (Mon) W8: Student Learning Fest (Tue - Fri) W10: MTL Intensive for 4E5NA WA2: 28-30 Apr or 2 May, T2W6 Topics: Ch 11, 13 & 16 (45 min) *adaptive thinking competency

	Practical 4: Effects of concentration on rate of reaction Practical 5: 2023 P3 (without planning) Practical 6: 2019 P3 (without planning) All practicals: 1hr 30min June Holidays: Practical 7: 2021 P3 (without planning) Practical 8: 2020 P3 (without planning) All practicals: 1h 30 min	
3/1-2 3/3 3/4 3/5 3/6 3/7 3/8-10	Ch 22 Maintaining Air Quality Ch 10 Ammonia Planning & Identifying sources of error 2024 Specimen Paper 2022 TYS P2 2023 TYS P1 and P2 Prelim Practical & Written Exam Practical 9: 2022 P3 Practical 10: 2024 P3 All practical: 2 hr	W1: Youth Day celebration 04/07 W2: Youth Day 07/07 (Mon) W3: Oral Exam (HBL) 15 – 17/07 (Tue-Thu) W6: National Day celebration 08/08 (Fri) W7: off-in-lieu for National Day 11/08 (Mon) W10: Teachers' Day celebration 04/09 (Thu) W10: Teachers' Day 05/09 (Fri) Timed Practice: 28-31 Jul or 1 Aug, T3W5 Topics: all chapters Prelim exams: T3W8-10 Topics: all Chapters
4/1-2 4/3 4/4	Script Check Practical 11: 2024 Specimen P3 2024 P1 and P3 2021 P1 and P3 2020 P1 and P3	