

YISHUN SECONDARY SCHOOL

Subject & Code: **Science (Chemistry) 5076 & 5078**

Level & Stream: **Sec 5 (Normal Academic), G2 / Year 2024**

Textbook: Discover Chemistry GCE 'O' Level Science Second Edition

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
1/2-4	Ch 11.3: Qualitative Analysis Practical: <ul style="list-style-type: none"> Tests for gases, cations and anions 	W1: Back To School Program W7: 12 – 13 Feb (CNY)
1/5-7	Ch 13: Metals Practical: <ul style="list-style-type: none"> Metal displacement (using well plates) 	W5: WA1 – Ch 7, 10 and 11
1/8-9	Ch 12: Oxidation and Reduction Practical: <ul style="list-style-type: none"> Test for Redox reagents 	
1/10 Hol HW	Ch 8: Chemical Calculations SLS: QA Package (Test for ions + gases)	
2/1 2/2-4	Ch 9: Chemical Calculations Ch 15: Energy Changes Ch 16: Speed of Reactions <ul style="list-style-type: none"> Effects of temperature on rate of reactions (teacher demo) Effects of concentration on rate of reactions 	W2: 29 Mar (Good Friday) W4: 10 Apr (Hari Raya Puasa) W5: 14 – 19 Apr (YSS Learning Festival) W7: 1 May (Labour Day) W10: 23 May (Vesak Day) / MTL Intensive
2/6 2/7-8 2/9-10	Ch 18: An Introduction to Organic Chemistry Ch 19: Alkanes and Alkenes Ch 20: Alcohols and Carboxylic Acids	W7: WA2 – Ch 2-5, 7, 9, 13-15, 17
Hol HW	SLS: Chapter 17: The Atmosphere and Environment and 2024 Specimen Paper P1 and P3 Term 2 Practicals: Practical 1 - 2017 P5 June Holidays Practicals: Practical 2 - 2024 Specimen Paper Practical 3 - 2022 P5 All practicals: 1hr 30min	

<p>3/1 3/2 3/3 3/4 3/5-6 3/7-10</p>	<p>Chapter 17: Chapter 17: The Atmosphere and Environment + Planning Qns 2024 Specimen Paper P1 and P3 2020 TYS P1 and P3 2021 TYS P1 and 3 2022 TYS P1 and 3 Practical & Prelim Exam</p> <p>Term 3 Practicals: Practical 4 - 2023 P5 Practical 5 - 2021 P5</p> <p>All practicals: 1hr 30min</p>	<p>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)</p> <p>W3: WA3 – Ch 3-5, 11, 15-18 Prelim: All Chapters</p>
<p>4/1-2 4/3 4/4</p>	<p>Script Check 2023 TYS P1 and 3 Conclusion/Evidence Worksheet 2019, 2018 TYS P1 and P3</p> <p>Practical 6 Skill-based: 2013 – test (a) 2020 – test (g) 2014 – test (a)</p>	