

YISHUN SECONDARY SCHOOL

Subject & Code: Science (Physics) 5086

Level & Stream: Sec 4E (Express)

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.		<p>Selected school competitions and enrichment programmes.</p> <p>All class structured group work develops communication competency.</p>
Term / Week	Learning Experiences (Chapter, Activity)	Learning Outcomes & Assessment
1/ 2 1/ 2-6 1/ 7-9 1/ 10 Hol HW	Practical Skills – Graph Drawing + Lab safety briefing Chapter 13: Electric Charge and Current Electricity Chapter 14: DC Circuits Chapter 15: Practical Electricity SLS on Topic 15: Practical Electricity Practical 1: 2022 Prelim (Moments) Practical 2: 2013 O Lvl (Waves) Practical 3: 2017 O Lvl (Centre of Gravity)	W0: back to school program W4: 29-30 Jan (CNY) W9: WA1 – Chapter 7, 8, 13 and 14 4P31 - Day 4 4P36 - Day 2
2/ 1-2 2/ 4-7 2/ 8-9	Chapter 15: Practical Electricity Chapter 16: Magnetism & Electromagnetism Chapter 17: Radioactivity Practical 4: 2016 O Lvl (Electricity) Practical 5: 2011 O Lvl (Thermal)	W2: 31 Mar (Hari Raya Puasa) W4: 18 Apr (Good Friday) W6: 1 May (Labour Day) 2 May (Oral Exam) W7: 9 May (Oral Exam) W8: 12 May (Vesak Day) / Student Learning Fest W10: MTL Intensive W6: WA2 – Chapter 9 to 12 and 14 to 16 (Only magnetism)
June Wk 4 Hol HW	Practical 6: 2023 O Level (Moments) Practical 7: 2022 O Level (Pendulum) 2020 TYS P1 and P2	
3/ 1-2 3/ 3 3/ 4 3/ 5 3/ 6 3/ 7-10 Hol HW	Chapter 17: Radioactivity 2021 TYS P2 2022 TYS P2 2023 TYS P2 2024 TYS P2 Practical & Prelim Exam 2024 TYS P1 Practical 8: 2023 Prelim (Electricity) Practical 9: Refraction (N07)	W2: 7 July (Youth Day) W3: 15-17 July National Oral Exam W5: Timed Practice W6: 8 Aug (National Day) W7: 11 Aug (ND School Hol) W10: 4 Sep (Teachers' Day Celebration) W10: 5 Sep (Teachers' Day)

4/ 1-4	Revision for O-Level Practical 10: Lens (2015) 2019 TYS P1 & 2	