

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> <p>All data based and planning questions develop adaptive thinking competency.</p>
Term / Week	Learning Experiences (Chapter, Activity)	Learning Outcomes & Assessment
1/ 1-2  1/ 3-5 1/ 6 1/ 7-8 1/9-10 Hol HW	<p>Chapter 10: Thermal properties of Matter + Lab safety briefing</p> <p>Chapter 15: Static Electricity</p> <p>Chapter 16: Current Electricity</p> <p>Chapter 17: D.C. Circuits</p> <p>Chapter 18: Practical Electricity</p> <p>SLS on Chapter 19: Magnetism</p> <p>Practical 1: Period of a pendulum</p> <p>Practical 2: Reflection and Refraction</p> <p>Practical 3: Resistivity of wire.</p> <p>All practical: 1hr</p>	<p>W0: back to school program</p> <p>W4: 29-30 Jan (CNY)</p> <p>W5: 7 March HBL</p> <p>W6: 14 March HBL</p> <p>W6: WA1 Chapter 10, 14 and 15</p> <p>4PP1 - Day 7</p> <p>4PP6 - Day 8</p>
2/ 1 2/ 2-3 2 / 4-7 2/ 9	<p>Chapter 19: Magnetism</p> <p>Chapter 20: Electromagnetism</p> <p>Chapter 21: Electromagnetic Induction</p> <p>Chapter 22: Radioactivity</p> <p>Practical 4: Resistivity of wire.</p> <p>Practical 5: Rate of Internal Energy Lost and Internal Energy in Stretched Spring</p> <p>Practical 6: Moment and Power of Candle</p> <p>All practical: 1 hr 30 mins (excluding planning)</p>	<p>W2: 31 Mar (Hari Raya Puasa)</p> <p>W4: 18 Apr (Good Friday)</p> <p>W6: 1 May (Labour Day)</p> <p>2 May HBL</p> <p>W7: 9 May HBL</p> <p>W8: 12 May (Vesak Day) NUS Demo Lab during Student Learning Fest*</p> <p>W10: MTL Intensive</p> <p>*adaptive thinking competency</p>
June Wk 1    Hol HW	<p>Practical 7: 2024 Prelim</p> <p>Practical 8: 2023 Prelim</p> <p>All practical: 1 hr 30 min</p> <p>2020 TYS P1 and 2</p>	
3/ 1-2 3/ 3 3/ 4 3/ 5	<p>Topic 22: Radioactivity</p> <p>2021 TYS P2</p> <p>2022 TYS P2</p> <p>2023 TYS P2</p>	<p>W2: 7 July (Youth Day)</p> <p>W4: Timed Practice</p> <p>W6: 8 Aug (National Day)</p> <p>W7: 11 Aug (ND School Hol)</p>

3/ 6 3/ 7-10 Hol HW	2024 TYS P2 Practical & Prelim Exam 2024 TYS P1  Practical 9: 2022 O Lvl Practical 10: 2024 O Lvl All practical: 2 hr	W10: 4 Sep (Teachers' Day Celebration) W10: 5 Sep (Teachers' Day)
4/ 1-4	Revision for O-Level Practical 11: 2023 O Lvl All practical: 2 hr 2019 TYS P1 & 2 + Planning Questions	