

YISHUN SECONDARY SCHOOL

Subject & Code: **Science (Chemistry) 5086 & 5088**

Level & Stream: **Sec 3 (Express) / Year 2023**

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
T1/1-3 T1/4-5 T1/6-7 T1/8-10	Ch 1: Experimental Chemistry Ch 2: Kinetic Particle Theory Ch 3: Atomic Structure Ch 4: Chemical Bonding (Ionic Bond)	WA 1: 28 Feb (T1W9) WA 1 topics: Ch 1-3
T2/1-2 T2/3-4 T2/5,7-8 T2/9-10	Ch 4: Chemical Bonding (Covalent Bond) Ch 5: Structure and Properties of Materials Ch 6: Chemical Formulae & Balancing Chemical Equations Ch 7: Mole Concept & Stoichiometry (including titrations)	WA 2: 16 May (T2W9) WA 2 topics: Ch 4-6
T3/1-3 T3/4-7 T3/8-10	Ch 7: Mole Concept & Stoichiometry Ch 8: Acids and Bases Ch 11: The Periodic Table Ch 12: The Reactivity Series	WA3: TBC
T4/1-2	Ch 12: The Reactivity Series Revision for End of Year Examination End of Year Exam End of Year activities	End of Year Examination (EOY)