

YISHUN SECONDARY SCHOOL  
 Subject & Code: **Chemistry 6092**  
 Level & Stream: **Sec 4 (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.		1. Math & Science Week 2. YSS Beyond Classroom Experience 3. CB Paul Science Quiz 4. Singapore Junior Olympiads
Term / Week	Learning Experiences (chapter, activity)	Learning Outcomes & Assessment
1/1-2 1/3-5 1/6-8 1/9-10	Ch 12: Salts: Identification of ions/gases + practical Ch 18: Speed of Reaction + practical + planning investigation Ch 17: Energy Changes + practical + planning investigation Ch 13: Redox Reaction + practical	WA 1 (Wk 6) Ch 12, 17 & 18
2/1-3 2/3-4 2/5 2/6	Ch 15: Electrolysis Ch 19: Ammonia Ch 21: Introduction to Organic Chemistry Revision for SA1	WA 2 (Wk 4) Ch 13, 15 + selected sec 3 topics SA1 (Wk 7-8) Ch 1-21
3/1-3 3/3-5 3/6-7 3/8-10	Ch 22: Alkanes and Alkenes + practical + planning investigation Ch 23: Alcohols and Carboxylic Acids + practical + planning investigation Ch 24: Macromolecules + practical Revision + practical	WA 3 Ch 21-23 + selected sec 3 topics Mock examination (both practical & theory)
4	Revision + practical	Prelim All topics Mock examination (theory)