YISHUN SECONDARY SCHOOL
Subject & Code: Sci Chemistry 5076 and 5078
Level & Stream: Sec 4 Express

<table>
<tr><th colspan="2">The Curriculum and Approaches to Learning</th><th>Key Programmes / Competitions</th></tr>
<tr><td colspan="2">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.

Skills and Processes to be learnt:
- Scientific Thinking
- Problem Identification
- Planning and conducting investigations through experiments
- Information Handling
- Communicating Results</td><td>1. Math & Science Week
2. YSS Beyond Classroom Experience
3. CB Paul Science Quiz
4. Singapore Junior Olympiads</td></tr>
<tr><th>Term / Week</th><th>Learning Experiences (chapter, activity)</th><th>Learning Outcomes & Assessment</th></tr>
<tr><td>1/1 – 4

1/5 – 7
1/8-10</td><td>Chp 8-9: Chemical Calculations - Stoichiometry and the Mole Concept
Chp 11: Salts and QA
Chp 16: Speed of Reaction</td><td>WA 1 (Term 1 Week 6)
Chp 8-11</td></tr>
<tr><td>2/1-2
2/3
2/4
2/5-6</td><td>Chp 12: Redox Reactions
Chp 15: Energy Changes
Chp 18: An Introduction to Organic Chemistry
Chp 19: Alkanes</td><td>WA 2
Chp 12,15,16

MYE
Chp 1 – 19 (Alkanes only)</td></tr>
<tr><td>3/1-2
3/3-4</td><td>Chp 19: Alkanes & Alkenes (continued)
Chp 20: Alcohols and Carboxylic Acids</td><td>Prelim
All topics & prelim practical exam</td></tr>
<tr><td>Term 4</td><td>Revision
Preparation for practical exam</td><td></td></tr>
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