YISHUN SECONDARY SCHOOL
Subject & Code: Chemistry 6092
Level & Stream: Sec 3 (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. Sec 3 Math & Science Learning Journey
2. Math & Science Week
3. YSS Beyond Classroom Experience
4. Crystal Growing Competition</td></tr>
<tr><th>Term / Week</th><th>Learning Experiences (chapter, activity)</th><th>Learning Outcomes & Assessment</th></tr>
<tr><td>1/1
1/2
1/4
1/6
1/7
1/9</td><td>Chapter 2: Measurement and Experimental Techniques
Chapter 3: Separation and Purification
Chapter 1: Kinetic Particle Theory
Chapter 6: Elements, Compounds and Mixtures
Chapter 5: Atomic Structure
Chapter 6: Ionic Bonding</td><td>WA1
Ch 1 – 4</td></tr>
<tr><td>2/1
2/4
2/5

2/8</td><td>Chapter 7: Covalent and Metallic Bonding
Chapter 8: Writing Chemical Equations
Chapter 9: The Mole
Chapter 10: Chemical Calculations
Chapter 16: The Periodic Table</td><td>
WA2
Ch 5-8</td></tr>
<tr><td>3/1
3/4
3/7
3/10</td><td>Chapter 11: Acids and Bases
Chapter 12: Salts
Chapter 14: Metals
Chapter 20: Air and Atmosphere</td><td>WA3
Ch 8-12 & 16</td></tr>
<tr><td>4/1

4/5</td><td>Revision for End-of -Year Exam

Head start Programme:
Chapter 18: Speed of Reaction</td><td>End of Year Exam
Ch 1-12, 14, 16 & 20</td></tr>
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