

| The Curriculum and Approaches to Learning   |   | Key Programmes / Competitions   |
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| 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)  | Assessment & Events   |
| 1/1-3<br><br>1/4-5<br>1/6<br>1/8-10<br>Hol HW   | Ch 1: Experimental Chemistry + Lab safety briefing<br>Practicals: <ul style="list-style-type: none"> <li>Filtration and crystallisation</li> </ul> Ch 2: Kinetic Particle Theory<br>Ch 3: Atomic Structure<br>Ch 4: Chemical Bonding (Ionic Bond)<br>SLS Lesson on Ch 2 & 3                                     | W1: Back To School Program<br>W4: CNY Celebration 28 /01 (Tue) CNY 29/01 (Wed), 30/01 (Thu)<br><br>WA1: 3-7 Mar, T1W9<br>Topics: Ch 1, 2 and 3 (45 min)   |
| 2/1-2<br>2/3-4<br>2/5-7<br>2/9-10<br><br>Hol HW   | Ch 4: Chemical Bonding (Covalent Bond)<br>Ch 5: Structure and Properties of Materials<br>Ch 6: Chemical Formulae & Balancing Chemical Equations<br>Ch 8: Acids and Bases<br><br>SLS Lesson on Ch 4 & 5  | W2: Hari Raya Puasa 31/03 (Mon)<br>W4: Good Friday 18/04 (Fri)<br>W6: Labour Day 01/05 (Thu)<br>W8: Vesak Day 12/05 (Mon)<br>W8: Student Learning Fest (Tue - Fri)<br>W10: MTL Intensive for 4E5NA<br><br>WA2: 5-9 May, T2W7<br>Topics: Ch 3, 4, 5, 6 (Chemical formulae only) (45 min) |
| 3/1-2<br><br>3/3<br>3/4-6<br>3/7-9<br>3/10<br><br>Hol HW  | Ch 8: Acids and Bases<br>Practicals: <ul style="list-style-type: none"> <li>Reactions of Acids and Alkalis</li> <li>Indicators</li> </ul> Ch 13: Chemical Energetics<br>Ch 7: Mole Concept & Stoichiometry<br>Ch 11: The Periodic Table<br>Revision for End of Year Examination<br><br>2024 YSS EOY Exam papers | W1: Youth Day celebration 04/07<br>W2: Youth Day 07/07 (Mon)<br>W3: Oral Exam (HBL) 15 – 17/07 (Tue-Thu)<br>W6: National Day celebration 08/08 (Fri)<br>W7: off-in-lieu for National Day 11/08 (Mon)<br>W10: Teachers' Day celebration 04/09 (Thu)<br>W10: Teachers' Day 05/09 (Fri)    |

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|   |   | WA3: 25-29 Aug, T2W9<br>Topics: Ch 6, 7, 8 and 13 (45 min) |
| 4 | Return and review WA3<br>Revision for End of Year Examination<br>End of Year Exam | End of Year Examination (EOY)<br>Topics: Ch 1-8, 11 & 13   |