

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
1/ 2-4	Chapter 10: Organisms and their Environment [W3] Practical 1: Year <b>2013</b> (test for starch in variegated leaf)	W1: back to school program W7: 12-13 Feb (CNY)  <b>WA1 [50 minutes] (W9): C5 (Nutrition in Humans), C6 (Transport in Humans), C7 (Respiration in Humans)</b>
1/ 5-7	Chapter 11: Molecular Genetics	
1/ 8-10	[W8] Practical 2: Year <b>2010</b> (test for starch & RS & protein, energy content/burn biscuits, drawing & magnification) + Year <b>2023</b> (comment on procedure with suggestion for improvement)  [W9] Practical 3: Year <b>2022</b> (plant reproduction & syringe skills)  [W10] Practical 4: Year <b>2021</b> (test for starch in chickpea, enzyme concentration on rate of product formation, osmosis – planning)	
2/ 1-4 2/ 6-8  2 / 9	Chapter 12: Reproduction in Humans Chapter 13: Inheritance  [W9] Practical 5: Year <b>2015</b> (enzyme/pH change in milk)  <u><b>June Holiday:</b></u> Practical 6: Year <b>2017</b> (osmosis in potato cells, drawing & magnification) + <b>2011</b> (planning question)  Practical 7: Year <b>2016</b> (test for starch & <u>reducing sugars &amp; gases</u> , drawing & effect of temp on enzyme activity in potato)  <b>June Holiday HW:</b> Year 2019 Yearly paper	W2: 29 Mar (Good Fri) W4: 10 Apr (Hari Raya Puasa) W5: Student Learning Fest W7: 1 May (Labour Day) W10: 22 May (Vesak Day) / MTL Intensive  <b>WA2 [1.5 hour] (W7): C8 (Infectious Diseases), C9 (Nutrition and Transport in Plants), C10 (Organisms and their Environment), C11 (Molecular Genetics), C12 (Reproduction in Humans)</b>

3/ 1-2	<p>[W1] Practical 8: Year <b>2019</b> (test for starch &amp; reducing sugars, enzymes/transport in plants) + Year <b>2018</b> planning question</p> <p>[W2]-Practical 9: Year <b>2018</b> (Transpiration measuring loss of water, wind affecting rate of transpiration)</p>	<p>W2: 1 July (Youth Day)</p> <p>W5: 23-25 July HBL (GCE Oral Exam)</p> <p>W7: 8-9 Aug (National Day)</p> <p>W8- 10: 14 Aug (Sci Practical Exam), Prelim Exams (15-28 Aug), Teachers' Day (29-30 Aug)</p>
3/ 3-8	<p>Revision and Prelim</p> <p>- Yearly papers from 2020 to 2023</p>	
4/1-10	<p>Prelim Script Checking / Revision for O-levels</p>	<p>W8: 31 Oct (Deepavali)</p>