

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.		<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)	Learning Outcomes & Assessment
1/ 2  1/ 3-7 1/ 8-9 1/ 10 Hol HW  1/ 2-5 1/ 6-10	Chapter1: Physical Quantities, Units and Measurements Chapter 14: Light Chapter 11: General Wave Properties I: Introduction Chapter 12: General Wave Properties II: Sound SLS on Chapter 10: General Wave Properties II: Sound  Practical 1: Vernier Calipers, Micrometer Screw Gauge * Practical 2: Converging Lens * <i>*focus on concepts, measurement and recording skills</i>	W0: back to school program W4: 29-30 Jan (CNY) W5: 7 March HBL W6: 14 March HBL  W9 Day 4: WA1 Chapter 1 and 14
2/ 1 2/ 2 2 / 3-6 2/ 7 2/ 7-8 2 / 9-10 Hol HW  2/ 1-4 2 / 5-8	Chapter 12: General Wave Properties II: Sound Chapter 13: Electromagnetic Spectrum Chapter 2: Kinematics Chapter 3: Dynamics I: Mass and Weight Chapter 4: Dynamics II: Forces Chapter 5: Turning Effects of Forces SLS on Chapter 5: Turning Effects of Forces  Practical 3: Vertical Oscillations* Practical 4: Speed** <i>*focus on concepts, measurement and recording skills</i> <i>**focus on measurements, recording skills and graphing</i>	W2: 31 Mar (Hari Raya Puasa) W4: 18 Apr (Good Friday) W6: 1 May (Labour Day) 2 May HBL W7: 9 May HBL W8: 12 May (Vesak Day) NUS Demo Lab during Student Learning Fest* W10: MTL Intensive  *adaptive thinking competency
3/ 1 3/ 2-4 3/ 5-7 3/ 8 3 / 9-10 Hol HW	Chapter 5: Turning Effects of Forces Chapter 6: Pressure Chapter 7: Energy Chapter 8: Kinetic Particle Model of Matter Chapter 9: Thermal Process 2023 EOY Paper 2	W2: 7 July (Youth Day) W6: 8 Aug (National Day) W7: 11 Aug (ND School Hol) W10: 4 Sep (Teachers' Day Celebration) W10: 5 Sep (Teachers' Day)

3/ 1-2	Practical 5: Pivoting Protractor using Paper Clips** <i>**focus on measurements, recording skills and graphing</i>	
4/ 1-2	Revision for EOY  <u>EOY Holiday</u> Chapter 10: SLS on Thermal Properties of Matter (only heat cap & specific heat cap)	EOY - Chapter 1 to 9, 11 to 14