

YISHUN SECONDARY SCHOOL

Subject & Code: **Science (Physics) 5086**

Level & Stream: **Sec 3E (Express) / Year 2024**

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/ 2-3 1/ 3-7 1/ 8-9 1/ 10 Hol HW 1/ 2-5 1/ 6-10	Chapter 1: Physical Quantities, Units and Measurements Chapter 12: Light Chapter 9: General Wave Properties I: Introduction Chapter 10: General Wave Properties II: Sound SLS on Topic 10: General Wave Properties II: Sound Practical 1: Vernier Calipers, Micrometer Screw Gauge * Practical 2: Simple Pendulum * <i>*focus on concepts, measurement and recording skills</i>	W1: back to school program W7: 12-13 Feb (CNY) W6: WA1 – Chapter 1 and 12 (without lens)
2/ 1 2/ 2 2/ 3-6 2 / 7-8 2 / 9-10 Hol HW 2/ 1-4	Chapter 10: General Wave Properties II: Sound Chapter 11: Electromagnetic Spectrum Chapter 2: Kinematics Chapter 3: Force and Pressure Chapter 4: Dynamics SLS on Topic 4: Dynamics Practical 3: Converging Lens* <i>*focus on concepts, measurement and recording skills</i>	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) W7: WA2 – Chapter 2, 9 to 12 (Lens only)
3/ 1 3/ 2-4 3/ 5-7 3/ 8 3/ 9-10 Hol HW 3/ 6-9	Chapter 4: Dynamics Chapter 5: Turning Effects of Forces Chapter 6: Energy Chapter 7: Kinetic Particle Model of Matter Chapter 8: Thermal Process Past Year EOY Practical 4: Pivoting Protractor using Paper Clips* <i>*focus on concepts, measurement and recording skills</i>	W2: 1 July (Youth Day) W5: 23-25 July HBL (GCE Oral Exam) W7: 8-9 Aug (National Day) Q10: 29-30 Aug (Teachers' Day) W6: WA3 – Chapter 1, 3 to 5
4/ 1-3	Revision for EOY	EOY: Chapter 1 to 11