

YISHUN SECONDARY SCHOOL

Subject & Code: Science (Physics) 5086

Level & Stream: Sec 3E (Express)

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>
Term / Week	Learning Experiences (Chapter, Activity)	Learning Outcomes & Assessment
1/ 2-3 1/ 3-6 1/ 7-8 1/ 9-10 Hol HW 1/ 2-5 1/ 6-10	Chapter 1: Physical Quantities, Units and Measurements + Lab safety briefing Chapter 12: Light Chapter 9: General Wave Properties I: Introduction Chapter 10: General Wave Properties II: Sound SLS on Topic 11: Electromagnetic Spectrum Practical 1: Vernier Calipers, Micrometer Screw Gauge* Practical 2: Simple Pendulum* <i>*focus on concepts, measurement and recording skills</i>	W0: back to school program W4: 29-30 Jan (CNY) W9: 7 March (Oral Exam) W10: 14 March (Oral Exam) W7: WA1 – Chapter 1 and 12 3P31 - Day 4 3P37 - Day 3
2/ 1 2/ 2-4 2/ 5-7 2 / 8-10 Hol HW 2/ 1-4	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: 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) / 13-16 May (Sec 3 Adventure Camp) W6: WA2 – Chapter 2, 9, 10 and 11
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: 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) W6: WA3 – Chapter 3, 4 and 5
4/ 1-3	Revision for EOY	EOY: Chapter 1 to 12