

YISHUN SECONDARY SCHOOL

Subject & Code: Sci (Physics) 5105

Level & Stream: Sec 3 (Normal Academic)

| <b>The Curriculum and Approaches to Learning</b>  |   | <b>Key Programmes / Competitions</b>   |
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| <p>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> <p>Skills and Processes to be learnt:</p> <ul style="list-style-type: none"> <li>- Scientific Thinking</li> <li>- Problem Identification</li> <li>- Information Handling</li> <li>- Communicating Results</li> </ul> |   | <ol style="list-style-type: none"> <li>1. Sec 3 Math &amp; Science Learning Journey</li> <li>2. Math &amp; Science Week</li> <li>3. YSS Beyond Classroom Experience</li> <li>4. ignITE Skills Challenge</li> </ol> |
| <b>Term / Week</b>  | <b>Learning Experiences (chapter, activity)</b>   | <b>Learning Outcomes &amp; Assessment</b>  |
| 1/1<br>1/3<br>1/6<br>1/10   | Chapter 1: Measurements<br>Chapter 4: Mass, Weight, Density<br>Chapter 2: Kinematics<br>Chapter 3: Dynamics   | WA1<br>Ch 1&4  |
| 2/1<br>2/3  | Chapter 3: Dynamics<br>Chapter 6: Pressure  | MYE<br>Ch 1-4  |
| 3/1<br>3/4<br>3/10  | Chapter 5: Turning Effect of Moments<br>Chapter 7: Work, Energy, Power<br>Chapter 11: General Wave Properties | WA2<br>Ch 5 – 7  |
| 4/1<br>4/8  | Chapter 11: General Wave Properties<br>Chapter 12: Electromagnetic Spectrum                                   | EOY<br>Ch 1 – 7, 11  |