

Peicai Secondary School  
 Subject Overview for Semester 1 2023  
 Science Physics | Secondary 5 | Normal (Academic)

| Week  | Chapter/Topic/Skill/Area   | Assignment/<br>Homework | Weighted<br>Assessment   |
|---|--|-------------------------|--|
| Week 3 & 4<br><br>T1W3 – CNY<br>Celebration<br>(Fri)<br><br>T1W4 – CNY<br>(Mon & Tue) | Addition of vector diagram (scalar and vector)<br><br>Light – Reflection and Refraction<br><br>Practical |                         |  |
| Week 5 & 6  | Light – TIR and Lens<br><br>Practical  | Assignment: Light       |  |
| Week 7 & 8  | Revision for Chapter 7-9<br><br>Practical  |                         | <u>WA1 (T1W7):</u> <ul style="list-style-type: none"> <li>• Vector Diagram (dynamics)</li> <li>• Transfer of thermal energy</li> <li>• Thermal Properties of Matter</li> <li>• Light</li> <li>• Waves</li> </ul> |
| Week 9 & 10   | Revision for 10-12   | Assignment:<br>Sound    |  |

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|--|---|-----------------------------------|--|
| Week 1 & 2   | Static Electricity  |                                   |  |
| Week 3 & 4<br>T2W3 – Good<br>Friday (Fri)                  | Static Electricity  | Assignment:<br>Static Electricity |  |
| Week 5 & 6<br>T2W6 – Hari<br>Raya Puasa<br>(in-lieu) (Mon) | Current Circuits <ul style="list-style-type: none"> <li>• Practical</li> </ul> Magnetism <ul style="list-style-type: none"> <li>- How do magnets behave?</li> <li>- What is a magnetic field?</li> <li>- How are magnets and magnetic materials different?</li> </ul> | Assignment:<br>D.C Circuits       |  |
| Week 7 & 8<br>T2W7 –<br>Labour Day<br>(Mon)                | Magnetism and Electromagnetism <ul style="list-style-type: none"> <li>- What are some methods of magnetization and demagnetisation?</li> <li>- How are different types of magnets used?</li> </ul>  |                                   | <u>WA2 (T2W8):</u> <ul style="list-style-type: none"> <li>• Forces and Pressure</li> <li>• Mass, Weight Density</li> <li>• Turning effect of forces</li> <li>• Energy, Work and Power</li> <li>• Light</li> <li>• Waves</li> <li>• EM Wave</li> <li>• Sound</li> <li>• Static Electricity</li> <li>• Current Electricity</li> <li>• Practical Electricity</li> </ul> |
| Week 9 & 10  | Magnetism and Electromagnetism <ul style="list-style-type: none"> <li>- What is the magnetic effect of a current?</li> <li>- How is a current-carrying conductor affected by an external magnetic field?</li> </ul>   | Assignment:<br>Magnetism          |  |

The subject overview is tentative and is subject to changes.