

**Peicai Secondary School**  
**Subject Overview for Semester 2 / 2022**  
**Mathematics [Secondary Two Normal (Technical)]**

<b>Term 3 [27 June – 2 September]</b>			
<b>Week</b>	<b>Chapter/Topic/Skill/Area</b>	<b>Assignment/Homework</b>	<b>Weighted Assessment</b>
Week 1 [27 Jun - 1 Jul]	<b>Chapter 7 Mathematics in Practical Situations</b> <ul style="list-style-type: none"> <li>7.1 Money Exchange</li> <li>7.2 Simple Interest</li> <li>7.3 Instalments</li> </ul>	Workbook Exercise 7A  Workbook Exercise 7B	
Week 2 [4 Jul - 8 Jul] <i>4 Jul - Youth Day Holiday</i> <i>7 Jul – HBL</i>	<b>Chapter 7 Mathematics in Practical Situations</b> <ul style="list-style-type: none"> <li>7.4 Taxation</li> <li>7.5 Utilities Bills</li> </ul>	Workbook Exercise 7C  Workbook Review Exercise 7  <b>SLS Packages for HBL:</b> <ul style="list-style-type: none"> <li>Understanding Income Tax in Singapore</li> <li>Utilities Bills in Singapore</li> </ul>	
Week 3 [11 Jul - 15 Jul] <i>11 Jul - Hari Raya Haji</i>	<b>Chapter 8 Congruence and Similarity</b> <ul style="list-style-type: none"> <li>8.1 Congruent Figures</li> <li>8.2 Similar Figures</li> </ul>	Workbook Exercise 8A  Workbook Exercise 8B  Workbook Review Exercise 8	
Week 4 [18/7 – 22/7] <i>20 Jul – HBL</i>	<b>Chapter 9 Pythagoras Theorem</b> <ul style="list-style-type: none"> <li>9.1 Pythaogras' Theorem</li> <li>9.2 Determine whether a Triangle is Right-angled given the Lengths of 3 sides</li> </ul>	Workbook Exercise 9A  Workbook Exercise 9B  Workbook Review Exercise 9 <b>SLS Packages for HBL:</b> <ul style="list-style-type: none"> <li>Geograbra Applet to discover relationship between sides of right-angled triangle</li> <li>Discovery of Pythagorean Triplets</li> </ul>	
Week 5 [25/7 – 29/7]	<b>Chapter 10 Data Analysis</b> <ul style="list-style-type: none"> <li>10.1 Dot Diagrams</li> <li>10.2 Histograms</li> </ul>	Workbook Exercise 10A  Workbook Exercise 10B	

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<p>Week 6 [1/8 – 5/8] <i>1 Aug – HBL</i></p>	<p><b>Chapter 10 Data Analysis</b></p> <ul style="list-style-type: none"> <li>• 10.3 Mode, Mean and Median</li> </ul>	<p>Workbook Review Exercise 10</p> <p><b>SLS Package for HBL:</b></p> <ul style="list-style-type: none"> <li>• Investigating Data Collection Methods</li> <li>• When do we use mean, median or mode?</li> </ul>	
<p>Week 7 [8/8 – 12/8] 8 to 10 Aug - National Day Commemoration &amp; Holiday</p>	<p><b>Revision for WA3</b></p> <ul style="list-style-type: none"> <li>• Topical Worksheets for Chapter 6 to 9.</li> </ul>	<p>Revision Worksheets for Chapter 6 – 9</p>	<p><b>Weighted Assessment 3</b></p> <ul style="list-style-type: none"> <li>• Topics: <ul style="list-style-type: none"> <li>- Chapter 6: Rate and Speed</li> <li>- Chapter 7: Mathematics in Practical Situations</li> <li>- Chapter 8: Congruence and Similarity</li> <li>- Chapter 9: Pythagoras Theorem</li> </ul> </li> </ul> <p>Format: Structured questions of varying marks  Duration: 1 hour  Total number of marks: 30  Use of calculator is allowed</p>
<p>Week 8 [15/8 – 19/8]</p>	<p><b>Chapter 11 Probability</b></p> <ul style="list-style-type: none"> <li>• 11.1 Listing Possible Outcomes in a Chance Situation</li> <li>• 11.2 Probability as a Measure of Chance of an Event</li> <li>• 11.3 Sure Event and Impossible Event</li> </ul>	<p>Workbook Exercise 11A</p> <p>Workbook Exercise 11B</p> <p>Workbook Exercise 11C</p>	

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<p style="text-align: center;">Week 9 [22/8 – 26/8] <i>23 Aug – HBL</i></p>	<p><b>Chapter 11 Probability</b></p> <ul style="list-style-type: none"> <li>• 11.4 Probability of an Event Not Occurring</li> <li>• 11.5 Probability from Data</li> </ul>	<p>Workbook Exercise 11D</p> <p>Workbook Review Exercise 11</p> <p><b>SLS Packages for HBL:</b></p> <ul style="list-style-type: none"> <li>• Probabilities in Games</li> <li>• Are in-game lootboxes encouraging gambling in teenagers?</li> </ul>	
<p style="text-align: center;">Week 10 [29/8 – 2/9] 1 to 2 Sep - Teachers' Day Celebration &amp; holiday</p>	<p><b>Chapter 12 Volume and Surface Area</b></p> <ul style="list-style-type: none"> <li>• 12.1 Prisms and Cylinders</li> <li>• 12.2 Surface Area of Prisms and Cylinders</li> </ul>	<p>Workbook Exercise 12A</p> <p>Workbook Exercise 12B</p> <p><b>September Holiday Assignment:</b> SLS Package on exploration of composite solids in real world using Google Earth.</p>	

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<b>Term 4 [12 September – 28 October]</b>			
<b>Week</b>	<b>Chapter/Topic/Skill/Area</b>	<b>Assignment/Homework</b>	<b>Weighted Assessment</b>
Week 1 [12/9 – 16/9]	<b>Chapter 12 Volume and Surface Area</b> <ul style="list-style-type: none"> <li>• 12.3 Volume of Prisms and Cylinders</li> <li>• 12.4 Surface Area and Volume of Composite Solids</li> </ul>	Workbook Exercise 12C  Workbook Review Exercise 12	
Week 2 [19/9 – 23/9]	<b>Revision for EOY</b> <ul style="list-style-type: none"> <li>• Past Year Sec 2 EOY Papers</li> <li>• Topical Revision Worksheets</li> </ul>	Practice Papers and Worksheets	
Week 3 [26/9 – 30/9]	<b>EOY Examinations</b>	Practice Papers and Worksheets	
Week 4 [3/10 – 7/10]	<b>EOY Examinations</b>	Practice Papers and Worksheets	<b>EOY</b>  Paper 1: 30 marks, 1 hour Paper 2: 30 marks, 1 hour
Week 5 [10/10 – 14/10]	<b>EOY Examinations</b>	Practice Papers and Worksheets	
<b>Week 6</b> [17/10 – 21/10]	<b>Error Analysis</b>		
<b>Week 7</b> [24/10 – 28/10]	<b>Post Exam Activities</b>	<b>Holiday Assignment:</b> SLS Packages for Self-Directed Revision of Sec 2 topics.	

The subject overview is tentative and is subject to changes.