



# Year 10 (2022)

## MATHEMATICS


### Term 4 Stage 5.1/5.2 Task Notification

<b>Date</b>	Week 3A: Monday, 31 <sup>st</sup> October, 2022																		
<b>Weighting</b>	Stage 5.1/2 - 35%		Stage 5.3 – 20%																
<b>Classes Assessed</b>	This assessment is compulsory for: <table border="1" data-bbox="373 775 1327 922"> <tr> <td>10MATB</td><td>Ms Elnemasy</td><td>10MATR</td><td>Mr Smithard</td></tr> <tr> <td>10MATI</td><td>Ms Azzi</td><td>10MATO</td><td>Mrs Ibrahim</td></tr> <tr> <td>10MATV</td><td>Mr Redpath</td><td>10MATY</td><td>Mr Fomin</td></tr> <tr> <td>10MATP</td><td>Mrs Attaalla</td><td>10MATG</td><td>Ms Azzi</td></tr> </table>			10MATB	Ms Elnemasy	10MATR	Mr Smithard	10MATI	Ms Azzi	10MATO	Mrs Ibrahim	10MATV	Mr Redpath	10MATY	Mr Fomin	10MATP	Mrs Attaalla	10MATG	Ms Azzi
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<b>Examination Details</b>	Read and acknowledge receipt of this notification via Google Classroom.  <b>Duration:</b> 90 minutes <b>Format:</b> Calculator <b>Venue:</b> School Hall																		
<b>Equipment Required</b>	The following equipment is required for this assessment task: <ul style="list-style-type: none"> <li>Blue and/or black pens</li> <li>Board-approved scientific calculator</li> <li>Pencil and eraser</li> <li>Ruler</li> </ul> Note: <ul style="list-style-type: none"> <li>A reference sheet will be provided.</li> <li>No phones, notes or borrowing of equipment will be permitted.</li> </ul>																		
<b>Marking Criteria</b>	<ul style="list-style-type: none"> <li>All questions should be attempted.</li> <li>All questions are worth 1 mark unless otherwise indicated.</li> <li>To obtain full marks, answers must be completely correct and all necessary working must be shown.</li> <li>Some marks may be awarded for partially correct answers.</li> <li>Trivial attempts will be counted as a non-attempt and may result in an official warning letter being issued.</li> </ul>																		
<b>Absentee Procedures</b>	If you are absent on the day of this examination, upon your return to school you must present a medical certificate to your class teacher or the head teacher explaining your absence, otherwise a mark of zero may be awarded. You will be required to sit for your examination on the first day you return to school.																		

## Syllabus Outcomes

**Note: The multiple-choice questions will be assessed on all topics.**

The following table lists all the Stage 4 and Stage 5 knowledge and numeracy skills that will be assessed in the extended response questions.

Strands	Assessment Outcomes
<b>Number and Algebra</b>	<p>Topic: <b><u>Equations and Formulas</u></b></p> <p><b>MA4-10NA</b> uses algebraic techniques to solve simple linear and quadratic equations</p> <p><b>MA5.2-8NA</b> solves linear and simple quadratic equations, linear inequalities and linear simultaneous equations, using analytical and graphical techniques</p>
<b>Measurement And Geometry</b>	<p>Topic: <b><u>Right-Angled Triangles (Trigonometry)</u></b></p> <p><b>MA5.1-10MG</b> applies trigonometry, given diagrams, to solve problems, including problems involving angles of elevation and depression</p> <p><b>MA5.2-13MG</b> applies trigonometry to solve problems, including problems involving bearings</p>
<b>Working Mathematically</b> 	<p><b>MA4-1WM</b> communicates and connects mathematical ideas using appropriate terminology, diagrams and symbols</p> <p><b>MA4-2WM</b> applies appropriate mathematical techniques to solve problems</p> <p><b>MA4-3WM</b> recognises and explains mathematical relationships using reasoning</p> <p><b>MA5.1-1WM</b> uses appropriate terminology, diagrams and symbols in mathematical contexts</p> <p><b>MA5.1-2WM</b> selects and uses appropriate strategies to solve problems</p> <p><b>MA5.1-3WM</b> provides reasoning to support conclusions that are appropriate to the context</p> <p><b>MA5.2-1WM</b> selects appropriate notations and conventions to communicate mathematical ideas and solutions</p> <p><b>MA5.2-2WM</b> interprets mathematical or real-life situations, systematically applying appropriate strategies to solve problems</p> <p><b>MA5.2-3WM</b> constructs arguments to prove and justify results</p>
<b>Textbook Chapters</b>	<p>Extended Response</p> <ul style="list-style-type: none"> <li>Cambridge 10: NSW Gold Chapters 7, 8</li> <li>Cambridge 10: 5.1 &amp; 5.2 Chapters 8, 9, 10</li> </ul> <p>Multiple Choice</p> <ul style="list-style-type: none"> <li>Cambridge 10: NSW Gold Chapters 2 - 6</li> <li>Cambridge 10: 5.1 &amp; 5.2 Chapters 2 - 7</li> </ul>