

## YEAR 11 (IGCSE) – MATHEMATICS FEBRUARY 2021

<b>Subject</b>	Mathematics
<b>Class/ Section</b>	Year 11 H and 11G
<b>Week</b>	February 7 <sup>th</sup> to 11 <sup>th</sup>
<b>Work send to students by</b>	Google classroom / Zoom
<b>Total number of lessons per week</b>	5
<b>UNIT 2(Book1) UNIT 6(Book2)</b>	Shape and Space 2 Shape and Space 6
<b>Lessons 1&amp;2 Shape &amp; Space2 (Unit 2-Book 1)  Live Zoom lesson Work will be assigned in Google Classroom which will be matched to the students ability</b>	<p><b>SHAPE AND SPACE 2- Circle Theorems(Page 140)</b></p> <p><b>Learning Objective:</b></p> <ul style="list-style-type: none"> <li>• Understand and use facts about tangent at a point and from a point</li> <li>• Understand, prove and use facts about angles subtended at the centre and the circumference of circles.</li> <li>• Understand and use the fact that the angle in a semicircle is <math>90^0</math></li> <li>• Understand opposite angles of cyclic quadrilateral sum to <math>180^0</math></li> <li>• Find missing angles using these Theorems and give reasons for the answers.</li> </ul> <p><b>Intended Learning Outcome:</b> By the end of the lesson students will be able to</p> <ul style="list-style-type: none"> <li>• Understand and use facts about tangent at a point and from a point</li> <li>• Understand, prove and use facts about angles subtended at the centre and the circumference of circles.</li> <li>• Understand and use the fact that the angle in a semicircle is <math>90^0</math></li> <li>• Understand opposite angles of cyclic quadrilateral sum to <math>180^0</math></li> <li>• Find missing angles using these Theorems and give reasons for the answers.</li> </ul>
<b>Task</b>	<p>Problems from the worksheet Text Book(Book 1) – Page 141 to 148– Ex 2 ,2*, 3, 3*, 4, 4*</p>
<b>Resources</b>	<p>Text Book : Edexcel International GCSE (9-1) Mathematics A Student Book 1&amp;2 by D A Turner I A Potts</p>

<p><b>Lessons 3 &amp; 4</b> <b>Shape &amp; Space 6</b> <b>(Unit 6-Book 2)</b></p> <p><b>Live Zoom lesson</b> <b>Work will be assigned in Google Classroom which will be matched to the students ability</b></p> <p><b>Task</b></p> <p><b>Resources</b></p>	<p><b>SHAPE AND SPACE 6 –Circle theorems(Page 66)</b></p> <p><b>Learning Objective:</b></p> <ul style="list-style-type: none"> <li>• <b>Understand and use alternate segment theorem.</b></li> <li>• <b>Understand use of internal and intersecting chord properties.</b></li> <li>• <b>Solve angle problems using Circle Theorems.</b></li> </ul> <p><b>Intended Learning Outcome:</b></p> <p><b>By the end of the lesson students will be able to</b></p> <ul style="list-style-type: none"> <li>• <b>Understand and use alternate segment theorem.</b></li> <li>• <b>Understand use of internal and intersecting chord properties.</b></li> <li>• <b>Solve angle problems using Circle Theorems.</b></li> </ul> <p><b>Problems from the Worksheet</b> <b>Text Book(Book 2) – Page 66 to 84– Ex 1, 1*, 2, 2*, 3, 3*, 4, 4*</b></p> <p><b>Text Book : Edexcel International GCSE (9-1) Mathematics A Student Book 1&amp;2 by D A Turner I A Potts</b></p>
<p><b>Lessons 5</b></p> <p><b>Google classroom</b></p> <p><b>Task</b></p> <p><b>Resources</b></p>	<p><b>Learning Objective:</b></p> <ul style="list-style-type: none"> <li>• <b>Solve angle problems using circle theorems.</b></li> </ul> <p><b>Intended Learning Outcomes:</b></p> <p><b>By the end of the lesson will be able to</b></p> <ul style="list-style-type: none"> <li>• <b>Solve angle problems using circle theorems.</b></li> </ul> <p><b>Worksheet</b></p> <p><b>Text Book : Edexcel International GCSE (9-1) Mathematics A Student Book 1&amp;2 by D A Turner I A Potts</b></p>