

YEAR 11 (GCSE) – MATHEMATICS FEBRUARY 2021

Subject	Mathematics
Class/ Section	Year 11 A-F
Week	February 7th to 11th
Work send to students by	Google classroom / Zoom
Total number of lessons per week	5
Unit 16	Circle Theorems
Lessons 1, 2 Unit 16.1 to 16.3 Live Zoom lesson Work will be assigned in Google Classroom which will be matched to the students ability	<p>Unit 16.1 to 16.3 Learning Objective:</p> <ul style="list-style-type: none"> • Solve problems involving chords and radii • Understand and use facts about tangent at a point and from a point • Understand, prove and use facts about angles subtended at the centre and the circumference of circles. • Understand and use the fact that the angle in a semicircle is 90^0 • Find missing angles using these Theorems and give reasons for the answers. <p>Intended Learning Outcome: By the end of the lesson students will be able to</p> <ul style="list-style-type: none"> • Solve problems involving chords and radii • Understand and use facts about tangent at a point and from a point • Understand, prove and use facts about angles subtended at the centre and the circumference of circles. • Understand and use the fact that the angle in a semicircle is 90^0 • Find missing angles using these Theorems and give reasons for the answers.
Task	Problems from the worksheet
Resources	Text Book : Edexcel GCSE (9- 1)Mathematics Higher Student Book and worksheet

<p>Lessons 3, 4 Live Zoom lesson Work will be assigned in Google Classroom which will be matched to the students ability</p>	<p>Unit 16.4 and 16.5 Learning Objective:</p> <ul style="list-style-type: none"> • Understand, prove and use facts about cyclic quadrilaterals • Prove alternate segment theorem. • Solve angle problems using circle theorems. • Find the equation of the tangent to a circle at a given point. <p>Intended Learning Outcome: By the end of the lesson students will be able to</p> <ul style="list-style-type: none"> • Understand, prove and use facts about cyclic quadrilaterals • Prove alternate segment theorem. • Solve angle problems using circle theorems. • Find the equation of the tangent to a circle at a given point.
<p>Task</p>	<p>Problems from the Worksheet</p>
<p>Resources</p>	<p>Text Book : Edexcel GCSE (9- 1)Mathematics Higher Student Book</p>
<p>Lessons 5 Google classroom</p>	<p>Learning Objective:</p> <ul style="list-style-type: none"> • Solve angle problems using circle theorems. <p>Intended Learning Outcomes: By the end of the lesson will be able to</p> <ul style="list-style-type: none"> • Solve angle problems using circle theorems.
<p>Task</p>	<p>Worksheet</p>
<p>Resources</p>	<p>Text Book : Edexcel GCSE (9- 1)Mathematics Higher Student Book</p>