YEAR 11 (GCSE) – MATHEMATICS FEBRUARY 2021

Subject	Mathematics
Class/ Section	Year 11 A-F
Week	February 14th to 18th
Work send to students by	Google classroom / Zoom
Total number of lessons per week	5
Unit 16 Unit 18	**Proof of Circle Theorems** **Vectors and Geometric Proof**
Lessons 1, 2 **Unit 16** **Live Zoom lesson** **Work will be assigned in Google Classroom which will be matched to the students ability**	**Unit 16** **Learning Objective:** • **Prove about angles subtended at the centre ,the circumference of circles and semicircle** • **Prove that opposite angles of cyclic quadrilateral add up to 180.** • **Prove alternate segment theorem.** **Intended Learning Outcome:** **By the end of the lesson students will be able to** • **Prove about angles subtended at the centre and the circumference of circles.** • **Prove that opposite angles of cyclic quadrilateral add up to 180.** • **Prove alternate segment theorem.**
Task	**Worksheet**
Resources	**Text Book : Edexcel GCSE (9- 1)Mathematics Higher Student Book and worksheet**
Unit 18 – **Vectors and Geometric Proof** **Lessons 3, 4** **Live Zoom lesson** **Work will be assigned in Google Classroom which will be matched to the students ability**	**Unit 18.1 to 18.4** **Learning Objective:** • **Work out the magnitude of a vector** • **Calculate using vectors and represent solutions graphically** • **Solve problems using vectors** • **Prove lines are parallel** • **Prove points are collinear** **Intended Learning Outcome:** **By the end of the lesson students will be able to** • **Work out the magnitude of a vector** • **Calculate using vectors and represent solutions graphically**

	Solve problems using vectors **Prove lines are parallel** **Prove points are collinear**
Task	**Problems from the Worksheet**
Resources	**Text Book : Edexcel GCSE (9- 1)Mathematics Higher Student Book**
Lessons 5 Google classroom	**Learning Objective:** **Solve geometric problems using Vectors** **Intended Learning Outcomes:** **By the end of the lesson will be able to** **Solve geometric problems using vectors**
Task	**Worksheet**
Resources	**Text Book : Edexcel GCSE (9- 1)Mathematics Higher Student Book**