YEAR 11 – MATHEMATICS (Week 8)

Subject	**Mathematics**
Class/ Section	**Year 11 A-F**
Week	**10th May to 14th May**
Work send to students by	**Class Group email / Google classroom / Zoom**
Total number of lessons per week	**5**
Chapter 6 Book 1	**Circles**
Lessons 1 Live Zoom lesson	**Unit 6.1: Midpoints and Perpendicular bisectors** **Learning objective** • **Find the midpoint of the line segment** • **Find the equation of the perpendicular bisector of a line segment** **Learning Outcome** **By the end of the lesson students will be able to** • **Find the midpoint of a line segment using the formula** • **Find the equation of the perpendicular bisector of a line segment** • **Do more complex problems involving the midpoint of the line segment and equation of the perpendicular bisector. Some of the students will be able to explore the midpoint formula in 3D**
Task	**Ex 6A : 4, 5 and 7 , Ex6B : 4 and 5**
Resources	**Text Book : Pure Mathematics Year 1** https://www.examsolutions.net/tutorials/mid-point-line-segment/ https://www.physicsandmathstutor.com/maths-revision/solutionbanks/

Lesson 2 and 3 Work will be assigned in Google Classroom which will be matched to the students ability **Task** **Resource**	**Unit 6.1: Midpoints and Perpendicular bisectors (Continued)** **Learning objective** • **Find the midpoint of the line segment** • **Find the equation of the perpendicular bisector of a line segment** **Intended Learning outcome :** **By the end of the lesson students will be able to** • **Do problems involving the midpoint of a line segment and equation of a perpendicular bisector from the exercise.** • **Do more complex problems** **Ex 6A : 8, 9 Ex 6B : 2, 3** **Text Book – Pure Mathematics Year 1** https://www.examsolutions.net/tutorials/mid-point-line-segment/ https://www.physicsandmathstutor.com/maths-revision/solutionbanks/
Lessons 4 Live Zoom lesson **Task** **Resources**	**Unit 6.2 Equation of a Circle** **Learning Objective :** • **Know how to find the equation of a circle** **Intended Learning Outcomes** **By the end of the lesson students will be able to** • **Find the equation of a circle with centre the origin** • **Find the equation of a circle with centre any point (a,b) and radius r** • **Use completing the square to find the equation of a circle** **Ex 6C – 3c, d,e , 5, 6, 10 a, b** **Text Book – Pure Mathematics Year 1** https://www.examsolutions.net/tutorials/mid-point-line-segment/ https://www.physicsandmathstutor.com/maths-revision/solutionbanks/

Lesson 5 **Work will be assigned in Google Classroom which will be matched to the students ability**	**Unit 6.2 Equation of a Circle (Continued)** **Learning Objective :** • **Know how to find the equation of a circle** **Intended Learning Outcomes** **By the end of the lesson students will be able to** • **Do problems involving equation of a circle** • **Do more complex problems from the exercise.**
Task	**Ex 6C – 2 – a, d, 3 – a, b, 4, 10 d, e**
Resources	**Text Book – Pure Mathematics Year 1** https://www.examsolutions.net/tutorials/mid-point-line-segment/ https://www.physicsandmathstutor.com/maths-revision/solutionbanks/