YEAR 12 – PURE MATHEMATICS (Week 5)-2021-2022

Subject	**Mathematics (PURE)**
Class/ Section	**Year 12 – Batch 1, 2 and 3**
Week	**26th September to 30th September**
Work send to students by	**Google classroom**
Total number of lessons per week	**3**
Units	**Pure Math** **Circles (chapter 6- section 6.3,6.4,6.5)** **Algebraic Methods (chapter 7-Section 7.1)**
Lessons 1,2,3 –Live Zoom lesson along with face to face instruction for students present on a particular day **Work will be assigned in google classroom which will be matched to the student's ability.**	**Specific Learning objectives** - Solve geometric problems involving straight lines and circles. -Use circle properties to solve problems on coordinate grids . -Find the angle in a semicircle and solve other problems involving circles and triangles. -Cancel factor in algebric fractions .

Tasks/Activities	**Specific Intended Learning Outcomes**
	- Students will be able to solve geometric problems involving straight lines and circles - Students will be able to Use circle properties to solve problems on coordinate grids. - Students will be able to find the angle in a semicircle and solve other problems involving circles and triangles - Students will be able to Cancel factor in algebric fractions. The Teacher will recall using algebra to find the coordinates of intersection of a straight line and a circle. The teacher will recall using the properties of tangents and chords within circles to solve geometric problems. The teacher will introduce method to find the centre of a circle given any three points on the circumference. The Teacher will recall factorization to simplify an algebraic fraction. Students will explore other examples and the implementation of circles and its properties in real life. Complete the questions assigned from the pure mathematics 1 text book in the notebook. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.
Assessment Criteria/ Essential questions	Essential Question that are according to the Pearson Edexcel specification e. g Core Mathematics C12 Advanced Subsidiary October 2017 question 13 For example, assessment objectives expected by the board with respect to the above question is listed below. AO1: select and correctly carry out routine procedures AO2: use mathematical language and notation correctly AO3: translate problems in mathematical and non-mathematical contexts into mathematical processes
Resources	1.Edexcel Pure Mathematics Book 1 Textbook 2. Ppt on the topic. 3.https://www.physicsandmathstutor.com 4.https://www.drfrostmaths.com/ 5.https://www.examsolutions.net/