YEAR 9 – MATHEMATICS (Week 5) -2021-2022

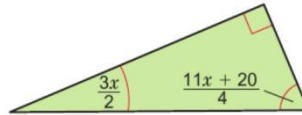|	
Subject	**Mathematics**
Class/ Section	**Year 9**
Week	**26th September to 30th September**
Work send to students by	**Google classroom**
Total number of lessons per week	**6**
Unit/Topic	**Unit 2.1 – Algebraic indices** **Unit 2.2 – Expanding and Factorising** **Unit 2.3 – Equations**
Key Vocabulary	Algebraic indices, Factorising, expressions, equations, formulae
Lessons 1,2,3,4,5,6 –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** - To use the rules of indices to simplify algebraic expressions. - To expand brackets - To factorise algebraic expressions - To solve equations involving brackets and numerical fractions. - To use equations to solve problems **Specific Intended Learning Outcomes** - Students will be able to apply the laws of indices. - Students will be able to factorise algebraic expressions - Students will be able to use equations to solve problems.

Tasks/Activities	The teacher will recap the previous knowledge of students .The teacher will introduce the concepts using PPT. Complete the questions assigned from the text book in the notebook. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.
Assessment Criteria/ Essential questions	**Exam-style question** a Expand $4x(2x - 5y)$ (1 mark) b Factorise completely $4cp - 6cp^2$ (1 mark) c Simplify $\sqrt{(9m^4n^6)}$ (2 marks) **Problem-solving** Find the size of the smallest angle in the triangle. $\frac{3x}{2}$ $\frac{11x + 20}{4}$ **Q16 strategy hint** What fact do you know about angles in a triangle? Assessment objectives expected by the board with respect to the above question is listed below. AO1: use and apply standard techniques AO2: Reason, interpret and communicate mathematically AO3: solve problems within mathematics and in other contexts
Resources	1. Text Book – Edexcel GCSE (9- 1)Mathematics Higher Student Book 2. PPT on the topic 3. Active learn