

YEAR 9 – MATHEMATICS (Week 1)-2021-2022

Subject	Mathematics
Class/ Section	Year 9
Week	5 th September to 9 th September
Work send to students by	Google classroom
Total number of lessons per week	6
Unit/Topic	Unit 1.2 – Place Value and estimating Unit 1.3 – HCF and LCM Unit 1.4 – Calculating with powers
Key Vocabulary	Estimation, Prime factor decomposition, index form, HCF,LCM
Lessons 1,2,3,4,5 –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 students ability.	 Specific Learning objectives Estimate an answer. Use place value to answer questions. Write a number of the product of its prime factors. Find the HCF and LCM of two numbers. Use powers and roots in calculations. Multiply and divide using index laws. Specific Intended Learning Outcomes Students will be able to estimate a given calculation. Students will be able to solve word problems involving HCF and LCM. Students will be able to apply the laws of indices.

Tasks/Activities	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	 a Estimate (17.9 - √36.13) × 3.89 b Use a calculator to work out the answer. Give your answer correct to 1 decimal place.
	 a Write 42 as a product of its prime factors. b Use your answer to write 84³ as a product of its prime factors in index form.
	7 Find the value of <i>a</i> . a $5^3 \times 5^a = 5^9$ b $6^a \div 6^{-5} = 6^8$ c $8^a \times 8^a = 8^4$
	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. Text Book – Edexcel GCSE (9-1)Mathematics Higher
	Student Book
	2. PPT on the topic
	3. Active learn