


Subject	Year	Month	
Mathematics	10	September	
Topic:			
Factors, multiples and primes			3 lessons
Content (Intent)			
Prior Learning Year 9 Indices September Year 8 Prime factor form, including HCF and LCM from Venn diagrams September		Future Learning Year 10 Fractions December	
Objectives <ul style="list-style-type: none"> Identify factors, multiples and prime numbers and find the prime factor decomposition of positive integers - write as a product using index notation; Find the LCM and HCF of two (or more) numbers by listing or prime factor form and Venn diagrams Solve problems using HCF and LCM, and prime numbers 			
Pedagogical notes (implementation)		How will understanding be assessed & recorded (Impact)	
Use a number square to find primes (Eratosthenes sieve). Using a calculator to check the factors of large numbers can be useful. Students need to be encouraged to learn squares from 2×2 to 15×15 and cubes of 2, 3, 4, 5 and 10, and corresponding square and cube roots. Students should understand that the prime factor decomposition of a positive integer is unique, whichever factor pair you start with, and that every number can be written as a product of prime factors		End of half term Assessment in Oct End of Year Mocks in April	
		How can parents help at home? MathsWatch clips (Qualification GCSE) 28, 78, 79, 80, 94 127a, 127b	
Further reading/discussion			
Reading / Enrichment	Literacy	Numeracy Links	Careers Links Internet security Computing Cryptology