


Subject	Year	Month		
Mathematics	10	October		
<b>Topic:</b>				
<b>Factors, multiples &amp; primes</b>			5 lessons	
Content (Intent)				
<b>Prior Learning</b> Year 8 Factors, multiple and primes September		<b>Future Learning</b> Year 10 Expanding and factorising brackets November		
<b>Objectives</b> <ul style="list-style-type: none"> <li>List all three-digit numbers that can be made from three given integers;</li> <li>Identify factors, multiples and prime numbers;</li> <li>Recognise odd and even numbers and two-digit prime numbers;</li> <li>List multiples and all factors of a number systematically and find common factors and common multiples of two numbers;</li> <li>Write a positive integer as a product of primes using index notation and understand that this prime factor decomposition is unique;</li> <li>Find and solve simple problems using the LCM and HCF of two numbers, by listing, Venn diagrams and using prime factors: include finding LCM and HCF given the prime factorisation of two numbers;</li> </ul>				
<b>Pedagogical notes (implementation)</b>		<b>How will understanding be assessed &amp; recorded (Impact)</b>		
Use a number square to find primes (Eratosthenes sieve). Using a calculator to check factors of large numbers can be useful. Students need to be encouraged to learn squares from $2 \times 2$ to $15 \times 15$ and cubes of 2, 3, 4, 5 and 10 and corresponding square and cube roots.		<b>End of half term</b> Oct <b>End of Year</b> Year 10 exams in April		
		<b>How can parents help at home?</b>		
		<b>MathsWatch clips</b>  <b>Qualification KS4:</b> 28, 69, 78, 79, 80  <b>Qualification KS3:</b> N30a, N30b		
<b>Further reading/discussion</b>				
<b>Reading / Enrichment</b>  <a href="http://www.ptolemy.co.uk/primitives">http://www.ptolemy.co.uk/primitives</a>		<b>Literacy</b>	<b>Numeracy Links</b>	<b>Careers Links</b> Internet security Computing Cryptology