Subject	Ye	ar	Month	N	
Mathematics	1	0	September		
Topic:					
Indices including roots and reciprocals 4 lessons					
Content (Intent)					
Prior Learning		Future Learning			
Year 9 Indices September		Year 10 Factors, multiples & primes September Year 10 Standard form September Year 10 Percentages (compound interest & repeated depreciation) December Year 12 Pure Chapter 1 Algebraic Expressions			
 Objectives Find the value of calculations involving positive, fractional (unitary and non-unitary) and negative indices; recalling that n⁰ = 1 					
 Know and use rules of indices to simplify and calculate the value of numerical expressions involving multiplication and division of integer powers, fractional and negative powers, and powers of a power; Know and use rules of indices to simplify algebraic expressions, including e.g. (2x³y⁴)³ Solve problems using index laws, e.g. solve 2×=16, 3²ⁿ=81, 8^{2x+3}=4^{7-x} 					
Pedagogical notes (implementation)	Including	How w	ill understanding b ed (Impact)	e assessed &	
Students need to know how to enter negative numbers into their calculator. Use negative number and not minus number to avoid		End of half term Assessment in Oct End of Year Mocks in April			
confusion with calculations		How ca	n parents help at h	iome?	

MathsWatch clips (Qualification GCSE) 29, 82, 131, 154, 188 75, 77

Further reading/discussion					
Reading / Enrichment	Literacy	Numeracy	Careers Links		
http://passyworldofmathematics.com/exponents-		Links	Cryptologist		
in-the-real-world/			Astronomer		
			Physicist		
			Engineer		