EAR 9	Autumn 2021		High	ligher			
TES	UNIT / LESSON	PRIOR KNOWLEDGE	GRADE FROM	GRADE TO	OBJECTIVES	Corbet	
	1 Number		3	9			
		Have a firm grasp of place value and be able to order					
		integers and decimals and use the four operations.					
		Know integer complements to 10 and to 100,					
		multiplication facts to 10×10 , strategies for					
		multiplying and dividing by 10. 100 and 1000. Have encountered squares, square roots, cubes and					
		cube roots and have knowledge of classifying integers.					
	1.1 Number problems and	Multiply numbers in a similar format to questions	3	6	Work out the total number of ways of performing a series of tasks.		
6-S	epreasoning	later in the section.					
		List possible outcomes from two events.					
	1.2 Place value and estimating	Estimate the value of a square root.	3	4	Estimate an answer.	_	
13-Sep	_		5	-			
	ep	Developments a succified desuce of economic					
		Round numbers to a specified degree of accuracy.			Use place value to answer questions.		
		Apply the four operations.					
20.0		Multiply prime factors together.		+ <u>-</u>	Write a number of the product of its prime factors.	-	
20-50	ep 1.3 HCF and LCM		4	5			
		List the factors of a number.	_		Find the HCF and LCM of two numbers.	_	
	1.4 Calculating with powers	Work out simple powers.	3	5	Use powers and roots in calculations.		
27-Sep	ep (indices)						
		Apply the four operations.			Multiply and divide using index laws.		
					Work out a power raised to a power.		
	1.5 Zero, negative and fractional	Convert between fractions and decimals.	5	9	Use negative indices.		
4- C	Oct indices		•				
		Use the laws of indices for positive indices.			Use fractional indices.		
	1.6 Powers of 10 and standard	Multiply by powers of 10 when the number is written	1	6	Write a number in standard form.	_	
		as an ordinary number and not an index.	4	0			
11-C	form	as an ordinary number and not an index.					
		Review different ways to divide by 10.			Calculate with numbers in standard form.	301-3	
		Use negative indices.					
	1.7 Surds	Review the meaning of the dot in the recurring	7	8	Understand the difference between rational and irrational numbers.	-	
18-Oct		notation.		0	onderstand the unreferice between rational and inational numbers.		
		Identify the missing multiple which practices the skills			Simplify a surd.		
		of searching for a perfect square factor.					
					Rationalise a denominator.		
TERM							
	2 Algebra		3	7			
	U U	Use negative numbers with the four operations and					
		recall and use hierarchy of operations and understand					
		inverse operations.					
		Use a calculator for decimals and negative numbers.					
		Use index laws numerically.					
		Use and interpret algebraic notation.					
		Set up and solve simple equations.					
		Recall the definitions of geometric and arithmetic					
		sequences.					
	2.1 Algebraic indices	Recognise that squaring and taking the square roots,	4	7	Use the rules of indices to simplify algebraic expressions.		
4		and cubing and taking the cube root, are inverse					
1-Nov	ov	operations.		1			
		Calculate with powers.				_	
8-Nov	2.2 Expanding and factorising	Simplify algebraic terms, including using index	3	7	Expand brackets.		
	ov	notation.					
		Multiply a single term over a bracket.		1	Factorise algebraic expressions.		
		Find highest common factors.					
15-N	ov 2.3 Equations	Solve a simple equation expressed in words.	3	6	Solve equations involving brackets and numerical fractions.	110-1	
		Solvo simplo algrobraic oguations	1	1	Lise equations to solve problems		

	Solve simple algrebraic equations			Use equations to solve problems.	114-115
	Find lowest common multiples.				
22-Nov 2.4 Formulae	Substitute values into a one-step formula.	3	6	Substitute numbers into formulae.	
	Write numbers in standard form.			Rearrange formulae.	7,8
				Distinguish between expressions, equations, formulae and identities.	
2.5 Linear sequences	Find the next term of a given arithmetic sequence.	3	5	Find a general formula for the nth term of an arithmetic sequence.	288, 289
	Substitute values in a simple linear expression.			Determine whether a particular number is a term of a given arithmetic sequence.	-
	Write terms in a sequence given the nth term.			sequence.	
	Use a function machine to find outputs.				
6-Dec 2.6 Non-linear sequences	Find the next term of given sequences.	3	6	Solve problems using geometric sequences.	37
	Identify arithmetic and geometric sequences.			Work out terms in Fibonnaci-like sequences.	287a
	Find the term-to-term rule for a sequence.			Find the nth term of a quadratic sequence.	38
TEST					
2.7 More expanding and	Recalling a square root.	4	7	Expand the product of two brackets.	
13-Dec factorising					1
	Finding the factor pairs of small integers.			Use the difference of two squares.	12
				Factorise quadratics of the form $x^2 + bx + c$.	11