

Subject: Mathematics

Year Group: 9

Specification: Edexcel

Lesson No	Topic & Objectives	Big Question – What will students learn?	Key Activities & Specialist Terminology (Do Now Task / Starter/Tasks/Plenary)	Planned Assessment	Homework or flipped learning resources DODDLE resources	Lit Num SMSC Codes
	Number problems and reasoning	Work out the total number of ways of performing a series of tasks.	<p>Key Words:</p> <p>Starter:</p> <p>5-a-day</p> <p>Foundation – strictly 5 mins</p> <p>MW Clip 68a, 68b, 75</p> <p>Main CW task:</p> <p>Corbett Maths</p> <p>Textbook Exercises:</p> <p>https://corbettmaths.com/wp-content/uploads/2020/05/Negatives-addition-and-subtraction.pdf</p> <p>-</p> <p>https://corbettmaths.com/wp-content/uploads/2018/11/Negatives-multiplication-and-division-pdf.pdf</p> <p>-</p>	<p>https://corbettmaths.com/wp-content/uploads/2013/02/arith-metic-with-negatives-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/real-life-negatives1.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/order-of-operations-pdf.pdf</p>	<p>https://vle.mathswatch.co.uk/vle/browse/224 MW clip 68a</p> <p>https://vle.mathswatch.co.uk/vle/browse/225 MW clip 68b</p> <p>https://vle.mathswatch.co.uk/vle/browse/233 MW clip 75</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p>	

			https://corbettmaths.com/wp-content/uploads/2013/02/real-life-negatives-pdf1.pdf - https://corbettmaths.com/wp-content/uploads/2018/11/Order-of-Operations-Exercise-211-pdf.pdf -			
	Place value and estimating	<p>Estimate an answer.</p> <p>Use place value to answer questions.</p>	<p>Key Words:</p> <p>Starter:</p> <p>5-a-day</p> <p>Foundation – strictly 5 mins</p> <p>MW Clip 90, 91, 92</p> <p>Main CW task:</p> <p>Corbett Maths</p> <p>Textbook Exercises:</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/rounding-significant-figures-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2018/10/Estimation-pdf.pdf</p> <p>-</p> <p>https://corbettmaths.com/wp-content/uploads/2018/11/Sensible-Estimates-pdf.pdf</p> <p>-</p>	<p>https://corbettmaths.com/wp-content/uploads/2013/02/significant-figures-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/estimation-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/sensible-estimates-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/place-value-pdf.pdf</p>	<p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>https://vle.mathswatch.co.uk/vle/browse/248 MW clip 90</p> <p>https://vle.mathswatch.co.uk/vle/browse/249 MW clip 91</p> <p>https://vle.mathswatch.co.uk/vle/browse/250 MW clip 92</p>	

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	Calculating with powers (indices)	Use powers and roots in calculations. Multiply and divide using index laws.	<p>Key Words:</p> <p>Starter:</p> <p>5-a-day</p> <p>Foundation – strictly 5 mins</p> <p>MW Clip 77, 81, 82, 131</p> <p>Main CW task:</p> <p>Corbett Maths</p> <p>Textbook Exercises:</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/use-of-a-calculator-pdf1.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2018/09/Squaring-Numbers-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2018/09/Square-Root-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2018/11/Cube-numbers-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2018/11/Cube-root-pdf.pdf</p>	<p>https://corbettmaths.com/wp-content/uploads/2013/02/use-of-a-calculator-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/square-numbers-and-square-roots-pdf1.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/square-numbers-and-square-roots-pdf1.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/cube-numbers-and-cube-roots-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/cube-numbers-and-cube-roots-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/laws-of-indices-algebra-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/laws-of-indices-algebra-pdf.pdf</p>	<p>https://vle.mathswatch.co.uk/vle/browse/235 MW clip 77</p> <p>https://vle.mathswatch.co.uk/vle/browse/239 MW clip 81</p> <p>https://vle.mathswatch.co.uk/vle/browse/240 MW clip 82</p> <p>https://vle.mathswatch.co.uk/vle/browse/292 MW clip 131</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p>

			https://corbettmaths.com/wp-content/uploads/2018/12/Indices-Exercise-172-pdf.pdf https://corbettmaths.com/wp-content/uploads/2019/02/Laws-of-Indices-174-pdf.pdf	- - - - -	
	Powers and standard form	<p>Write a number in standard form.</p> <p>Calculate with numbers in standard form.</p>	<p>Key Words:</p> <p>Starter:</p> <p>5-a-day</p> <p>Foundation – strictly 5 mins</p> <p>MW Clip 83</p> <p>Main CW task:</p> <p>Corbett Maths</p> <p>Textbook Exercises:</p> <p>https://corbettmaths.com/wp-content/uploads/2019/10/Standard-Form-Textbook.pdf</p>	<p>https://corbettmaths.com/wp-content/uploads/2013/02/standard-form-pdf.pdf</p>	<p>https://vle.mathswatch.co.uk/vle/browse/241 MW clip 83</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p>
	Algebraic indices	Use the rules of indices to simplify algebraic expressions.	<p>Key Words:</p>	<p>http://corbettmaths.com/wp-content/uploads/2013/02/laws-of-indices-algebra-pdf.pdf</p>	<p>https://vle.mathswatch.co.uk/vle/browse/184 MW clip 29</p>

			<p>Starter:</p> <p>5-a-day</p> <p>Foundation – strictly 5 mins</p> <p>MW Clip 29</p> <p>Main CW task:</p> <p>Corbett Maths</p> <p>Textbook Exercises:</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/laws-of-indices-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2019/02/Laws-of-Indices-174-pdf.pdf</p>	<p>https://corbettmaths.com/wp-content/uploads/2013/02/laws-of-indices-algebra-pdf.pdf</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p>	
Expanding and factorising	<p>Expand single brackets.</p> <p>Factorise algebraic expressions</p>	<p>Key Words:</p> <p>Starter:</p> <p>5-a-day</p> <p>Foundation – strictly 5 mins</p> <p>MW Clip 93, 134a, 134b, 94</p> <p>Main CW task:</p> <p>Corbett Maths</p>	<p>http://corbettmaths.com/wp-content/uploads/2013/02/expanding-brackets-pdf.pdf</p> <p>http://corbettmaths.com/wp-content/uploads/2013/02/expanding-two-brackets-pdf1.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/factorisation-pdf.pdf</p>	<p>https://vle.mathswatch.co.uk/vle/browse/251 MW clip 93</p> <p>https://vle.mathswatch.co.uk/vle/browse/295 MW clip 134a</p> <p>https://vle.mathswatch.co.uk/vle/browse/296 MW clip 134b</p> <p>https://vle.mathswatch.co.uk/vle/browse/252 MW clip 94</p>	

			<p>Textbook Exercises:</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/expanding-brackets-pdf1.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/expanding-two-brackets-pdf2.pdf</p> <p>-</p> <p>https://corbettmaths.com/wp-content/uploads/2019/01/Factorisation-pdf.pdf</p>		
Equations	<p>Solve equations involving brackets and numerical fractions.</p> <p>Use equations to solve problems.</p>	<p>Key Words:</p> <p>Starter:</p> <p>5-a-day</p> <p>Foundation – strictly 5 mins</p> <p>MW Clip 135a, 135b, , 136, 137</p> <p>Main CW task:</p> <p>Corbett Maths</p> <p>Textbook Exercises:</p> <p>https://corbettmaths.com/wp-content/uploads/2018/02/equations-pdf.pdf</p>	<p>http://corbettmaths.com/wp-content/uploads/2013/02/equations-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/equations-fractional-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/cross-multiplication-pdf.pdf</p> <p>http://corbettmaths.com/wp-content/uploads/2013/02/equations-pdf.pdf</p> <p>http://corbettmaths.com/wp-content/uploads/2013/02/forming-and-solving-equations-pdf1.pdf</p>	<p>https://vle.mathswatch.co.uk/vle/browse/297 MW clip 135a</p> <p>https://vle.mathswatch.co.uk/vle/browse/298 MW clip 135b</p> <p>https://vle.mathswatch.co.uk/vle/browse/299 MW clip 136</p> <p>https://vle.mathswatch.co.uk/vle/browse/300 MW clip 137</p>	

			<p>https://corbettmaths.com/wp-content/uploads/2018/09/Fractional-Equations-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2018/11/Cross-Multiplication-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2018/11/Equations-letters-both-sides-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2018/09/Forming-Solving-Equations-115-pdf.pdf</p>		
	Linear sequences	<p>Find a general formula for the nth term of an arithmetic sequence.</p> <p>Determine whether a particular number is a term of a given arithmetic sequence.</p>	<p>Key Words:</p> <p>Starter:</p> <p>5-a-day</p> <p>Foundation – strictly 5 mins</p> <p>MW Clip 102, 103</p> <p>Main CW task:</p> <p>Corbett Maths</p> <p>Textbook Exercises:</p> <p>https://corbettmaths.com/wp-content/uploads/2019/03/Sequences-pdf.pdf</p>	<p>https://corbettmaths.com/wp-content/uploads/2013/02/sequences-pdf.pdf</p> <p>http://corbettmaths.com/wp-content/uploads/2013/02/nth-term-pdf.pdf</p>	<p>https://vle.mathswatch.co.uk/vle/browse/260 MW clip 102</p> <p>https://vle.mathswatch.co.uk/vle/browse/261 MW clip 103</p>

			https://corbettmaths.com/wp-content/uploads/2018/12/nth-term-pdf.pdf		- - -
Non-linear sequences	<p>Solve problems using geometric sequences.</p> <p>Work out terms in Fibonacci-like sequences.</p> <p>Find the nth term of a quadratic sequence.</p>	<p>Key Words:</p> <p>Starter:</p> <p>5-a-day</p> <p>Foundation – strictly 5 mins</p> <p>MW Clip 104, 141, 213</p> <p>Main CW task:</p> <p>Corbett Maths</p> <p>Textbook Exercises:</p> <p>https://corbettmaths.com/wp-content/uploads/2019/03/Sequences-Patterns-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2019/04/Fibonacci.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2019/02/Quadratic-nth-Term.pdf</p>	<p>https://corbettmaths.com/wp-content/uploads/2013/02/sequences-patterns-pdf.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/quadratic-nth-term-pdf.pdf</p>	<p>https://vle.mathswatch.co.uk/vle/browse/262 MW clip 104</p> <p>https://vle.mathswatch.co.uk/vle/browse/304 MW clip 141</p> <p>https://vle.mathswatch.co.uk/vle/browse/388 MW clip 213</p> <p>https://corbettmaths.com/2016/08/07/quadratic-nth-term-version-1/ CM Video 388a</p> <p>https://corbettmaths.com/2016/08/07/quadratic-sequences-version-2/ CM Video 388b</p> <p>https://corbettmaths.com/2016/08/07/quadratic-sequences-version-3/ CM Video 388c</p> <p>-</p>	