

Topics in this cycle:	Taught: Spring 1	Year Group: 8
Key knowledge/concepts to be learnt ('Tell me about....')		Websites/blogs/YouTube links and further reading to deepen and consolidate learning
<p><u>Brackets, equations and inequalities:</u></p> <ul style="list-style-type: none"> • Solving equations (including brackets) • Forming and solving equations • Solving simple inequalities • Solve equations and inequalities with unknowns on both sides • Problem solving using algebra <p><u>Sequences/Indices:</u></p> <ul style="list-style-type: none"> • Generating sequences given worded rule/n-th term • Finding the n-th term of a sequence • Add/multiply expressions with indices • Use the addition and subtraction law for indices • Problem solving on sequences/law of indices <p><u>Fractions and Percentages:</u></p> <ul style="list-style-type: none"> • Fractions, Decimal, Percentage conversion • Finding FDP of amounts without a calculator • Finding FDP of amounts with a calculator 		<p> https://vimeo.com/491562998 https://vimeo.com/492153004 https://vimeo.com/492154163 </p> <p> https://vimeo.com/498290804 https://vimeo.com/501778472 https://vimeo.com/501778353 </p> <p> https://vimeo.com/492449530 https://vimeo.com/507639642 https://vimeo.com/505246845 </p>

Home-School Learning Collaboration – Mathematics

Key Vocabulary and Definitions To Be Learnt		What Will The Assessment Look Like?
Sequence	a list of things (usually numbers) that follow a rule	
Term	a number in a sequence	
Term to term rule	tells you how to get from one term in a sequence to another	
Graph	a visual representation of a sequence of numbers or data	
Linear	a sequence is linear when its values are represented by a straight line graph	Family Learning Opportunities:
Non linear	a sequence of values that are represented by other than linear graphs	
Arithmetic sequence	involves adding or subtracting same number each time	
Fibonacci sequence	generates terms by adding two previous terms	
Operation	is a symbol like '+', '-', 'x' or '÷'	
Variable	is a number we do not know and use an alphabetic letter for	
Coefficient	is a number by a variable	
Term	is made of a coefficient and a variable	
Expression	consists of at least two terms connected with an operation	
Equation	a statement with an equal sign (=)	Explore Fibonacci Sequence in real life: https://youtu.be/ihxJN6ZC9HE?si=4NPH6Rmx6WkBJycr
Solve	to find a numerical solution	