

Year 7 Maths Curriculum & Video Lessons to Support Learning from Home

	Topic		Video lessons to support learning from home:
	<u>Sequer</u>	ncing	<u>Sequencing</u>
	1.	Describing sequence	https://vimeo.com/452511896
	2.	Recognising linear and non linear sequences	https://vimeo.com/452511472
	3.	Continuing linear and non linear sequences	https://vimeo.com/452511256
	4.	Explain term to term rules	https://vimeo.com/455213178
	5.	Find missing terms in a sequence	https://vimeo.com/455213393
	A I a a b a	at which the	Algebraic Thinking
	Algebro 1.	Use function machines to find the input	https://vimeo.com/457723009
	2	andoutput	<u>https://vimeo.com/457728945</u>
	2.	Use function machines to write an expression	https://vimeo.com/458573490
1	3.	Substitute into an expression	https://vimeo.com/463004032
utum	4.	Generate sequences given an algebraic rule	https://vimeo.com/463005804
Ā	5.	Represent one and two step functionsgraphically	https://vimeo.com/463007502
	Equalit	ty and Equivalence	
	1.	Understand the meaning of equality	Equality and Equivalence
	2.	Solve one step linear equations using fouroperations	https://vimeo.com/463818524
	3.	Collecting like and unlike terms	https://vimeo.com/463819610
			https://vimeo.com/463819610 https://vimeo.com/463820701
			https://vimeo.com/465781557
			LER
			Mathe

	Place V	alue	Place Value and ordering integers and decimals
	and or	aering integers and aecimais	https://vimeo.com/469025929
	1.	Write and understand place value to one billion	https://vimeo.com/469026473
	2.	Position integers and decimals on a number line	https://vimeo.com/469026619
	3.	Compare two numbers using = < >	https://vimeo.com/471730234
	4.	Order a list of numbers including decimals	https://vimeo.com/476238232
	5.	Find the median and range of a set of numbers	https://vimeo.com/476238351
	6.	Round to one significant figure	https://vimeo.com/478518362
Autumn 2	7.	White a number in standard form (higher only)	https://vimeo.com/478520361
	Fractio	on, decimal and percentages	Fraction, decimal and percentages
	1.	Represent a fraction as a diagram	https://vimeo.com/481601101
	2.	Represent and compare fractions on a number line	https://vimeo.com/481601148
	3.	Equivalent fractions	https://vimeo.com/484047978
	4.	Convert fractions, decimals and percentages	https://vimeo.com/484048947
			https://vimeo.com/485570821
			https://vimeo.com/485571767
			https://vimeo.com/485571767



 Ing problems with addition and subtraction Mental strategies of addition and subtraction Formal methods of addition and subtraction including decimals Problem solving with perimeter Problem solving financial maths Problem solving with frequency trees Add and subtract numbers given in standard form (H) Understand and use factors and multiples 	Solving problems with addition and subtraction https://vimeo.com/490892938 https://vimeo.com/490894649 https://vimeo.com/491672240 https://vimeo.com/491672317 https://vimeo.com/491672453 https://vimeo.com/491672502 Solving problems with multiplication and division
 Mental strategies of addition and subtraction Formal methods of addition and subtraction including decimals Problem solving with perimeter Problem solving financial maths Problem solving with frequency trees Add and subtract numbers given in standard form (H) Understand and use factors and multiples 	https://vimeo.com/490892938https://vimeo.com/490894649https://vimeo.com/491672240https://vimeo.com/491672317https://vimeo.com/491672453https://vimeo.com/491672502Solving problems with multiplication and division
 Formal methods of addition and subtraction including decimals Problem solving with perimeter Problem solving financial maths Problem solving with frequency trees Add and subtract numbers given in standard form (H) ing problems with multiplication and division Understand and use factors and multiples 	https://vimeo.com/490894649 https://vimeo.com/491672240 https://vimeo.com/491672317 https://vimeo.com/491672453 https://vimeo.com/491672502 Solving problems with multiplication and division
 Problem solving with perimeter Problem solving financial maths Problem solving with frequency trees Add and subtract numbers given in standard form (H) <i>ing problems with multiplication and division</i> Understand and use factors and multiples 	https://vimeo.com/491672240 https://vimeo.com/491672317 https://vimeo.com/491672453 https://vimeo.com/491672502 Solving problems with multiplication and division
 Problem solving financial maths Problem solving with frequency trees Add and subtract numbers given in standard form (H) <i>ing problems with multiplication and division</i> Understand and use factors and multiples 	https://vimeo.com/491672317 https://vimeo.com/491672453 https://vimeo.com/491672502 Solving problems with multiplication and division
 Problem solving with frequency trees Add and subtract numbers given in standard form (H) <i>ing problems with multiplication and division</i> Understand and use factors and multiples 	https://vimeo.com/491672453 https://vimeo.com/491672502 Solving problems with multiplication and division
 Add and subtract numbers given in standard form (H) ing problems with multiplication and division Understand and use factors and multiples 	https://vimeo.com/491672502 Solving problems with multiplication and division
ing problems with multiplication and division 1. Understand and use factors and multiples	Solving problems with multiplication and division
1. Understand and use factors and multiples	
	https://vimeo.com/499606698
 Use formal methods of multiplication and division including decimals 	<u>https://vimeo.com/499609059</u> <u>https://vimeo.com/500778599</u>
3. Convert metric units	https://vimeo.com/499608079
 Find area of rectangles, triangles and parallelograms 	https://vimeo.com/503502978
5. Find area of trapezium	https://vimeo.com/503507122
6. Solve problems using the mean	https://vimeo.com/503509017
tions, Decimals & Percentages	Fractions, Decimals & Percentages
1. Find fraction of an amount	https://vimeo.com/505242774
2. Find the percentage of an amount	https://vimeo.com/505244871
 Problem solving using fractions greater than 1 and percentages greater than 100% 	https://vimeo.com/505248135
	 Find area of trapezium Solve problems using the mean Solve problems using the mean Finds & Percentages Find fraction of an amount Find the percentage of an amount Problem solving using fractions greater than 1 and percentages greater than 100%



	Directe	d Numbers	Directed Numbers
	1.	Order directed numbers on a number line	https://vimeo.com/510352210
	۷.	ose the four operations with unrected humbers	https://vimeo.com/510353138 https://vimeo.com/516391970
	3.	Solve two step equations	https://vimeo.com/upgrade
	4.	Use order of operation with directed numbers	https://vimeo.com/518994953
ing 2	Additio	n and subtraction of fractions	Addition and subtraction of fractions
Spr	1.	Covert between mixed numbers and improper fractions	https://vimeo.com/519458046
	2.	Add and subtract fractions with the same denominator	https://vimeo.com/519458698
	3.	Add and subtract fractions with any denominator	https://vimeo.com/523798787
	4.	Add and subtract mixed numbers	nttps://vimeo.com/523/98826
	5.	Use fractions in algebraic context	https://vimeo.com/523798863



	Topic Application of number		Video lessons to support learning from home:
	Construction, measuring and using geometric notation		Construction, measuring and using geometric notation
	1.	Recognise and draw acute, obtuse and reflex angles	https://vimeo.com/533528945
	2.	Recognise types of triangles and quadrilaterals	https://vimeo.com/533532001
	3.	Identify polygons upto a decagon	https://vimeo.com/533526575
	4.	Construct triangles using SSS, SAS and ASA	https://vimeo.com/533527191
	5.	Interpret and draw a pie chart	https://vimeo.com/536237082
	Develop geometric reasoning		Develop geometric reasoning
ler 1	1.	Understand and use angles on a straight line and angles at a point	<u>https://vimeo.com/541563921</u> <u>https://vimeo.com/541563965</u>
Summ	2.	Know and apply angle facts for triangles and quadrilaterals	<u>https://vimeo.com/542561112</u> <u>https://vimeo.com/542585433</u>
	3.	Find and use the angle sum of any polygon	https://vimeo.com/544930098
	4.	Understand and use parallel line angle rules	https://vimeo.com/544931429



Developing Number sense Developing Number s	sense
1. Use factors to simplify calculations <u>https://vimeo.com/</u>	549355838
2. Use estimation as a method of checking mental calculations <u>https://vimeo.com/s</u>	549366621
3. Use known number facts to derive other number facts	549380677
4. Use algebraic facts to derive new fact <u>https://vimeo.com/</u>	/ <u>552302912</u>
Sets and probability Sets and probability	у
1. Interpret and create Venn diagrams <u>https://vimeo.com/</u>	<u>/560341984</u>
2. Understand and use the union and intersection sets	<u>/560342194</u>
a a 3. Generate sample spaces for single events	<u>/562764178</u>
4. Understand and use the probability scale <u>https://vimeo.com/</u>	<u>/562769033</u>
Prime numbers and proof Prime numbers and p	proof
1. Recognise and identify prime numbers <u>https://vimeo.com/56</u>	<u>65630634</u>
2. Recognise and identify prime, square and <u>https://vimeo.com/56</u>	<u>65631096</u>
3. Find the HCF and LCM https://vimeo.com/56	<u>55631650</u> 55631650
4. Write a number as a product of its prime factors	<u>56094932</u>
5. Use Venn diagram to find the HCF and LCM (H) <u>https://vimeo.com/</u>	<u>/566095046</u>
6. Make and test conjectures <u>https://vimeo.com/</u>	<u>/566474409</u>

