

Topic	Video	Maths Watch
Autumn block 1 - Sequences		
Describe and continue sequence	https://vimeo.com/452511896	A11a
Predict and check next term	https://vimeo.com/452511724	
Sequence in a table and graphically	https://vimeo.com/452511472	
Linear and non linear	https://vimeo.com/452511256	A11b, A11c, A22
Continue linear sequences	https://vimeo.com/455212534	
Continue non linear sequences	https://vimeo.com/455212822	
Explain the term to term rule	https://vimeo.com/455213178	
Find the missing term	https://vimeo.com/455213393	
Autumn block 2 - Understand & Use Algebraic Notation		
Given a numerical input, find the output of a single function machine	https://vimeo.com/457723009	N26
Use inverse operations to find the input given the output	https://vimeo.com/457728509	A3
Use diagrams and letters to generalise number operations	https://vimeo.com/457732726	
Use diagrams and letters with single function machines	https://vimeo.com/457728945	N26
Find the function machine given a simple expression	https://vimeo.com/458573114	
Substitute values into single operation expressions	https://vimeo.com/458573490	A10
Find numerical inputs and outputs for a series of two function machines	https://vimeo.com/458573733	
Use diagrams and letters with a series of two function machines	https://vimeo.com/458573856	
Find the function machines given a two-step expression	https://vimeo.com/463003143	
Substitute values into two-step expressions	https://vimeo.com/463004032	A10
Generate sequences given an algebraic rule	https://vimeo.com/463005804	
Represent one- and two-step functions graphically	https://vimeo.com/463007502	
Autumn block 3 - Equality & Equivalence		
Understand the meaning of equality	https://vimeo.com/463818524	
Understand and use fact families, numerically and algebraically	https://vimeo.com/463818697	
Solve one-step linear equations involving +/- using inverse operations	https://vimeo.com/463819610	A12
Solve one-step linear equations involving x/÷ using inverse operations	https://vimeo.com/463820701	
Understand the meaning of like and unlike terms	https://vimeo.com/465782158	A6
Understand the meaning of equivalence	https://vimeo.com/465780705	

Simplify algebraic expressions by collecting like terms, using the $\equiv$ symbol	https://vimeo.com/465781557	A6
Autumn block 4 - Place Value & Ordering		
Recognise the place value of any number in an integer up to one billion	https://vimeo.com/469025929	N1a, N1b
Understand and write integers up to one billion in words and figures	https://vimeo.com/469026293	
Work out intervals on a number line	https://vimeo.com/469026473	
Position integers on a number line	https://vimeo.com/469026619	
Round integers to the nearest power of ten	https://vimeo.com/471731445	N27a
Compare two numbers using =, $\neq$, $<$, $>$, $\leq$, $\geq$	https://vimeo.com/471730234	A20a
Order a list of integers	https://vimeo.com/476238232	N2a
Find the range of a set of numbers	https://vimeo.com/476238351	S6
Find the median of a set of numbers	https://vimeo.com/476238399	
Understand place value for decimals	https://vimeo.com/476239368	N1b
Position decimals on a number line	https://vimeo.com/476239410	
Compare and order any number up to one billion	https://vimeo.com/478517775	A20a
Round a number to 1 significant figure	https://vimeo.com/478518362	N38
Write 10, 100, 1000 etc. as powers of 10 (H)	https://vimeo.com/478519115	N25
Write positive integers in the form $A \times 10^n$ (H)	https://vimeo.com/478519553	N45a
Investigate negative powers of ten (H)	https://vimeo.com/478519991	154
Investigate negative powers of ten (H)	https://vimeo.com/478520361	
Autumn block 5 - FDP Equivalence		
Represent tenths and hundredths as diagrams	https://vimeo.com/481601101	N23a
Represent tenths and hundredths on number line	https://vimeo.com/481601148	N32
Interchange between fractional and decimal number lines	https://vimeo.com/481601212	
Convert between fractions and decimals - tenths and hundredths	https://vimeo.com/481601482	
Convert between fractions and decimals - fifths and quarters	https://vimeo.com/484047374	
Convert between fractions and decimals - eighths and thousandths (H)	https://vimeo.com/484047978	
Understand the meaning of percentage using a hundred square	https://vimeo.com/484048407	
Convert fluently between simple fractions, decimals and percentages	https://vimeo.com/484048947	
Use and interpret pie charts	https://vimeo.com/484049498	S9
Represent any fraction as a diagram	https://vimeo.com/484049771	
Represent fractions on number lines	https://vimeo.com/485570497	

Identify and use simple equivalent fractions	https://vimeo.com/485570821	N23c
Understand fractions as division	https://vimeo.com/485570975	
Convert fluently between fractions, decimals and percentages	https://vimeo.com/485571360	N32
Explore fractions above one, decimals and percentages (H)	https://vimeo.com/485571767	
Spring block 1 - Addition & Subtraction		
Properties of addition and subtraction	https://vimeo.com/491148334	N3b, N4B
Mental strategies for addition and subtraction	https://vimeo.com/490892938	N3a, N4b
Use formal methods for addition of integers	https://vimeo.com/490893438	N3, N4
Use formal methods for addition of decimals	https://vimeo.com/490893785	
Use formal methods for subtraction of integers	https://vimeo.com/490894240	
Use formal methods for subtraction of decimals	https://vimeo.com/490894649	
Choose the most appropriate method: mental strategies, formal written or calculator	https://vimeo.com/490895019	
Solve problems in the context of perimeter	https://vimeo.com/491672240	G8a
Solve financial maths problems	https://vimeo.com/491672317	
Solve problems involving tables and timetables	https://vimeo.com/491672398	P4
Solve problems with frequency trees	https://vimeo.com/491672453	S5
Solve problems with bar charts and line charts	https://vimeo.com/491672436	S2a, S2b
Add and subtract numbers given in standard form (H)	https://vimeo.com/491672502	N45a, N45b
Spring block 2 - Multiplication & Division		
Properties of multiplication & division	https://vimeo.com/499605713	
Understand and use factors	https://vimeo.com/499606698	N10
Understand and use multiples	https://vimeo.com/499607033	N11
Multiply and divide integers and decimals by powers of 10	https://vimeo.com/499607473	N17a
Multiply by 0.1 and 0.01 (H)	https://vimeo.com/499607755	N17b
Convert metric units	https://vimeo.com/499608079	
Use formal methods to multiply integers	https://vimeo.com/499608515	N28a, N15a
Use formal methods to multiply decimals	https://vimeo.com/499609059	N28b, N15b
Use formal methods to divide integers	https://vimeo.com/500778191	N29a, N16
Use formal methods to divide decimals	https://vimeo.com/500778599	N29b
Understand and use order of operations	https://vimeo.com/500778922	N20

Solve problems using the area of rectangles and parallelograms	https://vimeo.com/503502978	G20a, G20b
Solve problems using the area of triangles	https://vimeo.com/503505576	G20c
Solve problems using the area of trapezia (H)	https://vimeo.com/503507122	G20d
Solve problems using the mean	https://vimeo.com/503509017	S7
Explore multiplication and division in algebraic expressions (H)	https://vimeo.com/503510295	
Spring block 3 - Fractions & Percentages of Amounts		
Find a fraction of a given amount	https://vimeo.com/505242774	N33
Use a given fraction to find the whole and/or other fractions	https://vimeo.com/505244871	
Find a percentage of a given amount using mental methods	https://vimeo.com/505245850	N24b
Find a percentage of a given amount using a calculator	https://vimeo.com/505246845	
Solve problems with fractions greater than 1 and percentages greater than 100% (H)	https://vimeo.com/505248135	
Spring block 4 - Directed Number		
Understand and use representations of directed numbers	https://vimeo.com/510351831	N19a, N19b
Order directed numbers using lines and appropriate symbols	https://vimeo.com/510352210	
Perform calculations that cross zero	https://vimeo.com/510352665	
Add directed numbers	https://vimeo.com/510353138	
Subtract directed numbers	https://vimeo.com/510353459	
Multiplication of directed numbers	https://vimeo.com/516391393	
Multiplication and division of directed numbers	https://vimeo.com/516391970	
Use a calculator for directed number calculations	https://vimeo.com/516392249	
Evaluate algebraic expressions with directed number	https://vimeo.com/516393008	
Introduction to two-step equations	https://vimeo.com/516393499	
Solve two-step equations	https://vimeo.com/518994039	A19a
Use order of operations with directed numbers	https://vimeo.com/518994953	N20
Roots of positive numbers (H)	https://vimeo.com/518995446	N25
Explore higher powers and roots (H)	https://vimeo.com/519001290	
Spring Block 5 - Addition & Subtraction of Fractions		
Understand representations of fractions	https://vimeo.com/519974593	N23a
Convert between mixed numbers and fractions	https://vimeo.com/519458046	N35
Add and subtract unit fractions with the same denominator	https://vimeo.com/519458395	N36

Add and subtract fractions with the same denominator	https://vimeo.com/519458698	
Add and subtract fractions from integers expressing the answer as a single fraction	https://vimeo.com/523798614	
Understand and use equivalent fractions	https://vimeo.com/523798657	N23b
Add and subtract fractions where denominators share a simple common multiple	https://vimeo.com/523798712	N36
Add and subtract fractions with any denominator	https://vimeo.com/523798787	
Add and subtract improper fractions and mixed numbers	https://vimeo.com/523798826	N41
Use fractions in algebraic contexts	https://vimeo.com/523798863	210a
Use equivalence to add and subtract decimals and fractions	https://vimeo.com/523820436	
Add and subtract simple algebraic fractions (H)	https://vimeo.com/525459423	
Summer Block 1 - Constructing, Measuring & Using Geometric Notation		
Understand and use letter and labelling conventions including those for geometric figures	https://vimeo.com/530747568	G10a, G10b
Draw and measure line segments including geometric figures	https://vimeo.com/530747611	
Understand angles as a measure of turn	https://vimeo.com/530904024	
Classify angles	https://vimeo.com/530905642	
Measure angles up to 180°	https://vimeo.com/530907546	G10c
Draw angles up to 180°	https://vimeo.com/533528945	
Draw and measure angles between 180° and 360°	https://vimeo.com/533529660	
Identify perpendicular and parallel lines	https://vimeo.com/533530515	
Recognise types of triangle	https://vimeo.com/533530987	G16
Recognise types of quadrilateral	https://vimeo.com/533532001	G14
Identify polygons up to a decagon	https://vimeo.com/533526575	G11
Construct triangles using SSS	https://vimeo.com/536238229	G26a, G26b, G26c
Construct triangles using SSS, SAS and ASA	https://vimeo.com/533527191	
Construct more complex polygons	https://vimeo.com/533537045	
Interpret simple pie charts using proportion	https://vimeo.com/533533844	S9
Interpret pie charts using a protractor	https://vimeo.com/536237513	
Draw pie charts	https://vimeo.com/536237082	
Summer Block 2 - Develop Geometric Reasoning		
Understand and use the sum of angles at a point	https://vimeo.com/541563921	45

Understand and use the sum of angles on a straight line	https://vimeo.com/541563965	
Understand and use the equality of vertically opposite angles	https://vimeo.com/542560663	120
Know and apply the sum of angles in a triangle	https://vimeo.com/542561112	121
Know and apply the sum of angles in a quadrilateral	https://vimeo.com/542585433	
Solve angle problems using properties of triangles and quadrilaterals	https://vimeo.com/542585859	
Solve complex angle problems	https://vimeo.com/542586173	
Find and use the angle sum of any polygon (H)	https://vimeo.com/544930098	123
Investigate angles in parallel lines (H)	https://vimeo.com/544930665	
Understand and use parallel line angles rules (H)	https://vimeo.com/544931429	
Use known facts to obtain simple proofs (H)	https://vimeo.com/544933359	
Summer Block 3 - Developing Number Sense		
Know and use mental addition and subtraction strategies for integers	https://vimeo.com/547567136	N3a, N3b, N13a, N13b, N19a
Known and use mental multiplication and division strategies for integers	https://vimeo.com/547567598	
Know and use mental arithmetic strategies for decimals	https://vimeo.com/547851767	
Know and use mental arithmetic strategies for fractions	https://vimeo.com/547860375	
Use factors to simplify calculations	https://vimeo.com/549355838	
Use estimation as a method for checking mental calculations	https://vimeo.com/549366621	
Use known number facts to derive other facts	https://vimeo.com/549380677	
Use known algebraic facts to derive other facts	https://vimeo.com/552302912	
Know when to use a mental strategy, formal written method or a calculator	https://vimeo.com/552303260	
Summer Block 4 - Sets and Probability		
Identify and represent sets	https://vimeo.com/560341864	P6
Interpret and create Venn diagrams	https://vimeo.com/560341984	
Understand and use the intersection of sets	https://vimeo.com/560342105	
Understand and use the union of sets	https://vimeo.com/560342194	
Understand and use the complement of a set (H)	https://vimeo.com/560367094	
Know and use the vocabulary of probability	https://vimeo.com/562763694	P1
Generate sample spaces for single events	https://vimeo.com/562764178	
Calculate the probability of a single event	https://vimeo.com/561819027	

Understand and use the probability scale	https://vimeo.com/562769033	
Know that the sum of probabilities for all possible outcomes is 1	https://vimeo.com/562798744	
Summer Block 5 - Prime Numbers & Proof		
Find and use multiples	https://vimeo.com/565629517	N11
Identify factors of numbers and expressions	https://vimeo.com/565630163	N10
Recognise and identify prime numbers	https://vimeo.com/565630634	N30a
Recognise square and triangular numbers	https://vimeo.com/565631096	
Find common factors of a set of numbers including the HCF	https://vimeo.com/565631650	N31a
Find common multiples of a set of numbers including the LCM	https://vimeo.com/566474094	N31b
Write a number as a product of its prime factors	https://vimeo.com/566094932	N30b
Use a Venn diagram to calculate the HCF and LCM (H)	https://vimeo.com/566095046	N31a, N31b
Make and test conjectures	https://vimeo.com/566476534	
Use counter examples to disprove a conjecture	https://vimeo.com/566474409	