Mathletics White Rose Maths Aligned Skill Quests & Activities







Year 4	
Yearly Overview	3
Autumn	4
Spring	8
Summer	
Year 5	16
Yearly Overview	
Autumn	
Spring	21
Summer	25
Year 6	29
Yearly Overview	
Autumn	
Spring	
Summer	40

Year 4

Yearly Overview

	Week	Week	Week	Week	Week	Week	Week	Week	Week	Week	Week	Week
	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	Numb Place	er: value			Number Additior subtract	: 1 and tion		Measurement: Area	Numb Multip divisio	oer: olication on	n and	Consolidation
Spring	Number: Multiplication and division B S		ement: Number: and Fractions er				Numb Decim	er: nals A				
Summer	Numb Decim	er: Ials B	Measu Money	rement:	Measure Time	ement:	Consolidation	Geome Shape	etry:	Statistics	Geom Positi and direct	etry: on ion

Autumn

Number: Place value					
Curriculum Li	nks	Small Steps			
Read and write numbers up to 1.000		Step 1 Represent numbers to 1.000			
in numerals and word	ls (Y3)	Step 2 Partition numbers to 1.000			
		Step 3 Number line to 1.000			
 Identify, represent an 	d estimate	Step 4 Thousands			
numbers using differe	ent	Step 5 Represent numbers to 10.000			
representations		Step 6 Partition numbers to 10.000			
		Step 7 Flexible partitioning of numbers to			
Recognise the place v	alue of each	10,000			
digit in a 3-digit num	per (hundreds,	Step 8 Find 1, 10, 100, 1,000 more or less			
tens, ones) (Y3)		Step 9 Number line to 10.000			
		Step 10 Estimate on a number line to 10.000			
Count in multiples of	6, 7, 9, 25 and	Step 11 Compare numbers to 10,000			
1,000		Step 12 Order numbers to 10.000			
		Step 13 Roman numerals			
Recognise the place \	alue of each	Step 14 Round to the nearest 10			
digit in a 4-digit numl	per (thousands,	Step 15 Round to the nearest 100			
hundreds, tens and o	nes)	Step 16 Round to the nearest 1.000			
First 1 000 second on the		Step 17 Round to the nearest 10, 100 or 1,000			
Find 1,000 more or le	ss than a given				
number					
Order and compare n	umbers beyond				
	umbers beyond				
1,000					
Read Roman numera	ls to 100 (I to C)				
and know that over ti	me, the numeral				
system chanaed to in	clude the				
concept of zero and place value					
Round any number to	the nearest 10,				
100 or 1,000					
Skill Quests		Skills			
A1 Place value review	Represent numb	ers to 1,000			
	Partition number	rs to 1,000			
	Number line to 1	,000			
	Thousands				
A1 Place value	Represent numb	ers to 10,000			
Partition number		rs to 10,000			
Flexible partition		ing to 10,000			
Find 1, 10, 100, 1		L,000 more or less			
Working with a r		number line to 10,000			
A1 Comparing & ordering Compare number		rs to 10,000			
numbers Order numbers to		o 10,000			
A1 Roman numerals Roman numerals		5			
A1 Rounding numbers	Round to the neo	prest 10			
2	Round to the nearest 100				
	Round to the nearest 1,000				
	Round to the neo	und to the nearest 10, 100 or 1,000			

Course Topic	Activities Title
Autumn: Number (place	Place Value to Thousands
value)	Place Value 3
	Partition and Rename 3
	Expanding Numbers
	Which Is Greater?
	Which Is Less?
	Put in Order 1
	Missing Numbers 1
	Integers on a Number Line
	Converting to Roman Numerals to 100
	Nearest 10?
	Nearest 100?
	Nearest 1000?
	Rounding Numbers

Number: Addition and Subtraction				
Curriculum Li	nks	Small Steps		
 Add and subtract numbers with up to four digits using the formal written 		Step 1 Add and subtract 1s, 10s, 100s and 1,000s		
methods of columnar subtraction where ap	addition and propriate	Step 2 Add up to two 4-digit numbers – no exchange		
Solve addition and subtraction two-		Step 3 Add two 4-digit numbers – one exchange		
step problems in cont which operations and	exts, deciding I methods to use	Step 4 Add two 4-digit numbers – more than one exchange		
and why		Step 5 Subtract two 4-digit numbers – no exchange		
Estimate and use inve to check answers to c	erse operations a calculation	Step 6 Subtract two 4-digit numbers – one exchange		
		Step 7 Subtract two 4-digit numbers – more than one exchange		
		Step 8 Efficient subtraction		
		Step 9 Estimate answers		
		Step 10 Checking strategies		
Skill Quests		Skills		
A2 Addition & subtraction review	Add & subtract 1	.s, 10s, 100s & 1,000s		
A2 Addition	Add up to two 4	-digit numbers - no exchange		
	Add two 4-digit numbers - one exchange			
	Add two 4-digit	numbers - more than one exchange		
A2 Subtraction	Subtract two 4-c	ligit numbers - no exchange		
	Subtract two 4-c	ligit numbers - one exchange		
	Subtract two 4-c	ligit numbers with exchanges		
Efficient subtract		tion		
A2 Estimation & checking Estimate answer		rs		
	Checking strateg	jies		
Course Topic		Activities Title		
Autumn: Number (addition Add 3-Digit Nu		ibers: Exchanging (UK)		
and subtraction)	Strategies for Ca	lumn Addition (UK)		
	3-Digit Differences			
	Bump Add and S	Subtract		

Adding Colossal Columns (UK)
Estimate Sums
Split Add and Subtract
Jump Add and Subtract
Subtracting Colossal Columns (UK)
Estimate Differences

Measurement: Area				
Curriculum Li	nks	Small Steps		
Find the area of rectili	near shapes by	Step 1 What is area?		
counting squares		Step 2 Count squares		
		Step 3 Make shapes		
		Step 4 Compare areas		
Skill Quests		Skills		
A3 Area	What is area?			
	Count squares			
	Make shapes			
	Compare area			
Course Topic		Activities Title		
Autumn: Measurement	Area of Shapes			
(area)	Equal Areas			
	Biggest Shape			

Number: Multiplication and division A				
Curriculum Li	nks	Small Steps		
Recall multiplication and division facts		Step 1 Multiples of 3		
for multiplication tabl	es up to 12 × 12	Step 2 Multiply and divide by 6		
		Step 3 6 times-table and division facts		
Recognise and use fa	ctor pairs and	Step 4 Multiply and divide by 9		
commutativity in men	tal calculations	Step 5 9 times-table and division facts		
		Step 6 The 3, 6 and 9 times-tables		
Count in multiples of (o, 7, 9, 25 and	Step 7 Multiply and divide by 7		
1,000		Step 8 7 times-table and division facts		
	un aus al al autica al	Step 9 11 times-table and division facts		
Use place value, knov friete te revultight and a	vn ana aerivea	Step 10 12 times-table and division facts		
including multiply and a	hy 0 and 1.	Step 11 Multiply by 1 and 0		
dividing by 1 multiplying	by 0 and 1;	Step 12 Divide a number by 1 and itself		
three numbers	ang together	Step 13 Multiply three numbers		
Skill Quests		Skills		
A4 Multiplication facts for 3,	Multiples of 3			
6&9	Multiply & divide by 6			
	6 times-table & division facts			
	Multiply & divide by 9			
	9 times-table & c	livision facts		
	The 3, 6 & 9 time	s-tables		
A4 Multiplication facts for 7, Multiply & d		by 7		
11 & 12	7 times-table & c	livision facts		
	11 times-table &	division facts		
	12 times-table & division facts			

A4 Multiplication & division	Multiply by 1 & 0		
properties	Divide by 1 & itself		
	Multiply 3 numbers		
Course Topic	Activities Title		
Autumn: Number	Grouping in Threes		
(multiplication & division A)	Counting up in 6s		
	Groups of Six		
	Dividing Sixes		
	Groups of Nine		
	Dividing Nines		
	Counting up in 7s		
	Groups of Seven		
	Dividing Sevens		
	Times Tables		
	Multiply 3 single-digit numbers		

Spring

Number: Multiplication and division B					
Curriculum	Links	Small Steps			
Recognise and use fa	ctor pairs and	Step 1 Factor pairs			
commutativity in mental calculations		Step 2 Use factor pairs			
		Step 3 Multiply by 10			
Recall multiplication a	and division facts for	Step 4 Multiply by 100			
multiplication tables u	up to 12 × 12	Step 5 Divide by 10			
		Step 6 Divide by 100			
 Multiply and divide w those involving decim 	hole numbers and als by 10, 100 and	Step 7 Related facts – multiplication and division			
1,000 (Y5)		Step 8 Informal written methods for multiplication			
Solve problems involv adding, including usir	ving multiplying and ng the distributive	Step 9 Multiply a 2-digit number by a 1- digit number			
law to multiply 2-digi integer scaling proble	t numbers by 1 digit, ems and harder	Step 10 Multiply a 3-digit number by a 1- digit number			
objects are connected	to m objects	Step 11 Divide a 2-digit number by a 1- digit number (1)			
Multiply 2-digit and 3 digit graph and 3	-digit numbers by a	Step 12 Divide a 2-digit number by a 1- digit number (2)			
layout	formal written	Step 13 Divide a 3-digit number by a 1- digit number			
	up and darived facts	Step 14 Correspondence problems			
• Ose place value, know	mentally including:	Step 15 Efficient multiplication			
	1. dividing by 1.				
multiplying by 6 and 3	3 numbers				
Skill Quests		Skills			
Sp1 Eactor pairs	Factor pairs	Skiils			
	Use factor pairs				
Sp1 Multiply & divide by 10	Multiply by 10				
& 100	Multiply by 100				
	Divide by 10				
	Divide by 10				
Sp1 Related facts	Related facts - multiplication & division				
Sp1 Multiplication	Informal written methods				
	Multiply a 2-diait by a 1-diait number				
	Multiply a 3-diait by	a 1-digit number			
Sp1 Division	Divide a 2-diait by a	1-digit number (1)			
	Divide a 2-diait by a	1-digit number (2)			
	Divide a 3-diait by a	1-digit number			
Sp1 Solving multiplication Corresponde		blems			
problems	Efficient multiplication	on			
Course Topic		Activities T <u>itle</u>			
Spring: Number	Factors				
(multiplication & division B)	Find the Factor				
,	Multiply Multiples of	10			
	Mental Methods Multiplication 1				
	Mental Methods Division 1				

Measurement: Length and perimeter				
Curriculum Li	nks	Small Steps		
Convert between different units of		Step 1 Measure in kilometres and metres		
measure [for example, kilometre to		Step 2 Equivalent lengths (kilometres and metres)		
		Step 3 Perimeter on a grid		
Measure and calculate	e the perimeter	Step 4 Perimeter of a rectangle		
of a rectilinear figure	(including	Step 5 Perimeter of rectilinear shapes		
squares) in centimetre	es and metres	Step 6 Find missing lengths in rectilinear shapes		
		Step 7 Calculate perimeter of rectilinear		
		shapes		
		Step 8 Perimeter of regular polygons		
		Step 9 Perimeter of polygons		
Skill Quests	Skills			
Sp2 Length	Measure in kilometres & metres			
	Equivalent lengths (kilometres & metres)			
Sp2 Perimeter	Perimeter on a g	rid		
	Perimeter of a rectangle			
	Working with pe	rimeter of rectilinear shapes		
	Perimeter of regular polygons			
	Perimeter of poly	/gons		
Course Topic	Activities Title			
Spring: Measurement	Measuring Length			
(length and perimeter)	Converting cm and mm			
	Centimetres and Metres			
	Kilometre Conve	rsions		
	Metres and Kilon	netres		
	Operations with	Length		
	Perimeter of Sha	pes		
	Calculate Perimeter of Squares and Rectangles			

Number: Fractions				
Curriculum Links	Small Steps			
Recognise and use fractions as	Step 1 Understand the whole			
numbers: unit fractions and non-unit	Step 2 Count beyond 1			
fractions with small denominators	Step 3 Partition a mixed number			
(Y3)	Step 4 Number lines with mixed numbers			
	Step 5 Compare and order mixed numbers			
 Recognise and show, using diagrams, families of common equivalent fractions Add and subtract fractions with the same denominator 	Step 6 Understand improper fractions			
	Step 7 Convert mixed numbers to improper			
	fractions			
	Step 8 Convert improper fractions to mixed			
	numbers			
	Step 9 Equivalent fractions on a number line			
	Step 10 Equivalent fraction families			
	Step 11 Add two or more fractions			
	Step 12 Add fractions and mixed numbers			
	Step 13 Subtract two fractions			

	Step 14 Subtract from whole amounts	
	Step 15 Subtract from mixed numbers	
Skill Quests	Skills	
Sp3 Mixed numbers &	Understand the whole	
wholes	Count beyond 1	
	Partition a mixed number	
	Working with mixed numbers	
Sp3 Improper fractions	Understand improper fractions	
	Convert mixed numbers & improper fractions	
Sp3 Fractions: equivalence	Equivalent fractions on a number line	
	Equivalent fraction families	
Sp3 Fractions: Add &	Add two or more fractions	
subtract	Add fractions & mixed numbers	
	Subtract two fractions	
	Subtract from whole amounts	
	Subtract from mixed numbers	
Course Topic	Activities Title	
Spring: Number (fractions)	Model Fractions	
	Identifying Fractions on a Number Line	
	Identifying Fractions Beyond 1	
	What Mixed Number Is Shaded?	
	Mixed and Improper Fractions on a Number Line	
	Mixed to Improper Fractions	
	Improper to Mixed	
	Improper Fraction to Mixed Numeral	
	Equivalent Fractions	
	What fraction Is Shaded 1	
	Equivalent Fraction Wall 2	
	Equivalent Fractions	
	Add Like Fractions	
	Subtract Like Fractions	

Number: Decimals A		
Curriculum Links	Small Steps	
 Count up and down in tenths; 	Step 1 Tenths as fractions	
recognise that tenths arise from	Step 2 Tenths as decimals	
dividing an object into 10 equal parts	Step 3 Tenths on a place value chart	
and in dividing 1-digit numbers or	Step 4 Tenths on a number line	
quantities by 10 (Y3)	Step 5 Divide a 1-digit number by 10	
	Step 6 Divide a 2-digit number by 10	
Recognise and write decimal	Step 7 Hundredths as fractions	
equivalents of any number of tenths	Step 8 Hundredths as decimals	
or hundredths	Step 9 Hundredths on a place value chart	
• Compare numbers with the same number of decimal places up to 2 decimal places	Step 10 Divide a 1- or 2-digit number by 100	
 Find the effect of dividing a 1- or 2- digit number by 10 and 100, identifying the value of the digits in 		

 the answer as ones, the undredths Count up and down in recognise that hundred dividing an object by tenths by 10 Recognise and show, families of common en fractions 	enths and n hundredths; edths arise when 100 and dividing using diagrams, quivalent	
Skill Quests		Skills
Sp4 Decimals A: tenths	Tenths as fractio	ns
	Tenths as decime	als
	Tenths on a plac	e value grid
	Tenths on a num	ber line
	Divide 1-digit by	10
	Divide 2-digit by	10
Sp4 Decimals A:	Hundredths	
Hundredths	Hundredths as decimals	
	Hundredths on a	place value grid
	Divide 1 or 2-digits by 100	
Course Topic	Activities Title	
Spring: Number (decimals	Decimals from Words to Digits 1	
A)	Decimals on the Number Line	

Summer

Number: Decimals B		
Curriculum I	Links	Small Steps
Recognise and write a	decimal equivalents	Step 1 Make a whole with tenths
of any number of tenths or hundredths		Step 2 Make a whole with hundredths
		Step 3 Partition decimals
Solve simple measure	and money	Step 4 Flexibly partition decimals
problems involving fro	actions and decimals	Step 5 Compare decimals
to 2 decimal places		Step 6 Order decimals
		Step 7 Round to the nearest whole
Compare numbers wi	th the same number	number
of decimal places up t	to 2 decimal places	Step 8 Halves and quarters as decimals
 Round decimals with 1 decimal place to the nearest whole number Recognise and write decimal equivalents to 1/4, 1/2 and 3/4 		
Skill Quests		Skills
Sum1 Making a whole with	Make a whole with t	enths
decimals	Make a whole with h	nundredths
Sum1 Working with	Partition decimals	
decimals	Flexibly partition dec	cimals
	Compare & order de	cimals
	Round to the neares	t whole number
	Halves & quarters as	s decimals
Course Topic	Activities Title	
Summer: Number (decimals	Comparing Decimals	51
B)	Decimal Order 1	
	Decimal Complemen	its

Measurement: Money		
Curriculum Links		Small Steps
Estimate, compare and calculate		Step 1 Write money using decimals
different measures, in	cluding money in	Step 2 Convert between pounds and pence
pounds and pence		Step 3 Compare amounts of money
		Step 4 Estimate with money
		Step 5 Calculate with money
		Step 6 Solve problems with money
Skill Quests	Skills	
Sum2 Money	Convert between pounds & pence	
	Compare amoun	ts of money
	Estimate with mo	oney
Calculate & solv		e problems with money
Course Topic		Activities Title
Summer: Measurement	Who has the money? (GBP) Money - Adding (GBP)	
(money)		
	Money Problems	: Four Operations with Pounds

Measurement: Time		
Curriculum Links		Small Steps
 Solve problems involv 	ring converting	Step 1 Years, months, weeks and days
from hours to minutes	s, minutes to	Step 2 Hours, minutes and seconds
seconds, years to mor	nths, weeks to	Step 3 Convert between analogue and digital
days		times
Read, write and convert time between		Step 4 Convert to the 24-hour clock
		Step 5 Convert from the 24-hour clock
analogue and digital	12- and 24-hour	
clocks		
Skill Quests	Skills	
Sum3 Time	Years, months, w	veeks & days
	Hours, minutes 8	a seconds
Convert betwee		n analogue & digital times
	Convert to & fror	n the 24-hour clock
Course Topic	Activities Title	
Summer: Measurement	Time Conversions: Whole Numbers 2	
(time)	What is the Time	2?
	24 Hour Time	

Geometry: Shape		
Curriculum Links		Small Steps
Recognise angles as a property of		Step 1 Understand angles as turns
shape or a description of a turn (Y3)		Step 2 Identify angles
		Step 3 Compare and order angles
 Identify acute and obtained 	tuse angles and	Step 4 Triangles
compare and order ar	ngles up to two	Step 5 Quadrilaterals
right angles by size		Step 6 Polygons
		Step 7 Lines of symmetry
 Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Identify lines of symmetry in 2-D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of automateric 		Step 8 Complete a symmetric figure
Skill Quests		Skills
Sum4 Angles	Understand angles as turns	
	Identify angles	
	Compare & orde	rangles
Sum4 Classifying shapes Triangles Quadrilaterals		
	Polygons	
Sum4 Symmetry	Lines of symmet	ý
	Symmetric figure	S

Course Topic	Activities Title	
Summer: Geometry (shape)	What Type of Angle?	
	What Type of Angle 2?	
	Comparing Angles	
	Triangle Tasters	
	Symmetry or Not?	
	Collect the Polygons	
	Collect the Shapes	

Statistics		
Curriculum Links		Small Steps
 Interpret and present discrete and 		Step 1 Interpret charts
continuous data using	g appropriate	Step 2 Comparison, sum and difference
graphical methods, in	cluding bar	Step 3 Interpret line graphs
charts and time graph	าร	Step 4 Draw line graphs
 Solve comparison, sur 	m and difference	
problems using inform	nation presented	
in bar charts, pictogra	ims, tables and	
other graphs		
Skill Quests		Skills
Sum5 Statistics	Interpret charts -	- tables
	Interpret charts -	- pictograms
	Interpret charts -	bar charts
	Solving problems	s using charts
	Comparison, sun	n & difference
	Interpret & draw	line graphs
Course Topic		Activities Title
Summer: Statistics	Interpreting Tabl	es
	Bar Chart	
	Line Graphs: Exp	lanation

Geometry: Position and Direction		
Curriculum Li	nks	Small Steps
Describe positions on a 2-D grid as		Step 1 Describe position using coordinates
coordinates in the first quadra	ant	Step 2 Plot coordinates
		Step 3 Draw 2-D shapes on a grid
Plot specified points and dray	v sides to	Step 4 Translate on a grid
complete a given polygon		Step 5 Describe translation on a grid
Describe movements between positions as translations of a given unit to the left/right and up/down		
Skill Quests		Skills
Sum6 Position & direction	Describe position using coordinates	
	Plot coordinates	
	Draw 2-D shape	s on a grid
	Translate on a g	rid
	Describe translat	tion on a grid

Course Topic	Activities Title
Summer: Geometry	Coordinate Meeting Place
(position and direction)	Coordinate Graphs: 1st Quadrant

Problem solving	
Course Topic	Activities Title
Problem solving	Magic Symbols 1
	Bar Model Problems 2
	Find the Missing Number 1
	I am Thinking of a Number!
	Fit the Conditions 1

Year 5

Yearly Overview

	Wee	Wee	Wee	Wee	Wee	Wee	Wee	Wee	Week	Week	Week	Week
	K 1	κz	КЗ	К4	К 5	КЮ	К /	Кδ	9	10	11	12
Autumn	Number: Place value		Numb Addit and subtro	ion action	Number: Multiplication and division A		Number: Fractions A					
Spring	Number: Multiplication and division B		Numb Fracti	er: ons B	Number: Decimals and percentages		Measurement: Perimeter and area		Statist	ics		
Summer	Geometry: Shape		Geom Positi and direct	etry: on ion	Numt Decin	oer: nals		Number: Negative numbers	Measur : Conver units	ement	Measurement: Volume	

Autumn

Number: Place value				
Curriculum Li	nks	Small Steps		
Read Roman numera	ls to 1,000 (M)	Step 1 Roman numerals to 1,000		
and recognise years v	vritten in Roman	Step 2 Numbers to 10,000		
numerals		Step 3 Numbers to 100.000		
		Step 4 Numbers to 1.000.000		
Read, write, order and	d compare	Step 5 Read and write numbers to 1.000.000		
numbers to at least 1,	,000,000 and	Step 6 Powers of 10		
determine the value o	f each digit	Step 7 10/100/1 000/10 000/100 000 more or		
		less		
 Count forwards or ba 	ckwards in steps	Step 8 Partition numbers to 1,000,000		
of powers of 10 for ar	ny given number	Step 9 Number line to 1.000.000		
up to 1,000,000		Step 10 Compare and order numbers to		
		100,000		
Solve number problem	ns and practical	Step 11 Compare and order numbers to		
problems involving th	e above	1,000,000		
		Step 12 Round to the nearest 10, 100 or 1,000		
Round any number up	o to 1,000,000 to	Step 13 Round within 100,000		
the hearest 10, 100, 1	.,000, 10,000	Step 14 Round within 1,000,000		
		Skille		
A1 Poman numerals	Skills			
	Numbers to 10 000			
ATTICE Value	Numbers to 100 000			
	Numbers to 100,	0.000		
	Read & write numbers to 1 000 000			
	Powers of 10			
	10/100/1 000/10 000/100 000 more or less			
	Partition numbers to 1,000,000 more of less			
A1 Comparing & ordering	Compare & order numbers to 100,000			
numbers	Compare & order numbers to 1,000,000			
A1 Bounding numbers	Bound to negrest 10, 100 & 1,000			
	Round within 100 000			
	Round within 100,000			
Course Topic	, -	Activities Title		
Autumn: Number (place	Converting to Roman Numerals to 1000			
value)	Converting from Roman Numerals to 1000			
	Place Value to Millions			
	Expanded Notati	on		
	Partition and rename 3			
	Numbers in Words			
	Numbers from Words to Digits 1			
	Numbers from W	/ords to Digits 2		
	Nearest 10?			
	Nearest 100?			
	Nearest 1000?			
	Rounding Numbers			

Number: Addition & Subtraction					
Curriculum Li	nks	Small Steps			
Add and subtract nur	nbers mentally	Step 1 Mental strategies			
with increasingly larg	e numbers	Step 2 Add whole numbers with more than four digits			
 Add and subtract wh more than four digits, 	ole numbers with including using	Step 3 Subtract whole numbers with more than four digits			
formal written metho	ds (columnar	Step 4 Round to check answers			
addition and subtract	ion)	Step 5 Inverse operations (addition and subtraction)			
Solve addition and su	btraction multi-	Step 6 Multi-step addition and subtraction			
step problems in cont	exts, deciding	problems			
which operations and	i methods to use	Step 7 Compare calculations			
ana wny		Step 8 Find missing numbers			
 Round any number up the nearest 10, 100, 1 and 100,000 	o to 1,000,000 to .,000, 10,000				
 Use rounding to chec calculations and dete context of a problem, accuracy 	k answers to rmine, in the levels of				
Skill Quests		Skills			
A2 Addition & subtraction strategies	Mental strategies	5			
A2 Formal algorithm	Add whole numbers with more than four digits				
-	Subtract whole numbers with more than four digits				
A2 Rounding & checking	Round to check answers				
0000000		answers			
unswers	Inverse operation	nswers ns (addition & subtraction)			
A2 Addition & subtraction	Inverse operation Multi-step addition	ns (addition & subtraction) on & subtraction problems			
A2 Addition & subtraction problems	Inverse operation Multi-step addition Compare calcula	nswers ns (addition & subtraction) on & subtraction problems tions			
A2 Addition & subtraction problems	Inverse operation Multi-step additio Compare calcula Find missing nun	nswers ns (addition & subtraction) on & subtraction problems tions nbers			
A2 Addition & subtraction problems Course Topic	Inverse operation Multi-step additio Compare calcula Find missing num	answers ns (addition & subtraction) on & subtraction problems tions nbers Activities Title			
A2 Addition & subtraction problems Course Topic Autumn: Number (addition	Inverse operation Multi-step additio Compare calcula Find missing num	answers as (addition & subtraction) on & subtraction problems tions abers Activities Title ubtract			
A2 Addition & subtraction problems Course Topic Autumn: Number (addition and subtraction)	Inverse operation Multi-step additio Compare calcula Find missing nun Jump Add and Su Split Add and Su	answers as (addition & subtraction) an & subtraction problems tions abers Activities Title ubtract btract			
A2 Addition & subtraction problems Course Topic Autumn: Number (addition and subtraction)	Inverse operation Multi-step additio Compare calcula Find missing nun Jump Add and Su Split Add and Su Compensation –	Activities Title Ubtract btract Add			
A2 Addition & subtraction problems Course Topic Autumn: Number (addition and subtraction)	Inverse operation Multi-step addition Compare calcula Find missing num Jump Add and So Split Add and So Compensation – Compensation –	Activities Title Ubtract Add Subtract			
A2 Addition & subtraction problems Course Topic Autumn: Number (addition and subtraction)	Inverse operation Multi-step addition Compare calcula Find missing num Jump Add and So Split Add and So Compensation – Compensation – Add 3-Digit Num	Activities Title Ubtract Add Subtract Add Subtract btract Add Subtract btract Add Subtract btract Add Subtract btract btract			
A2 Addition & subtraction problems Course Topic Autumn: Number (addition and subtraction)	Inverse operation Multi-step additio Compare calcula Find missing num Jump Add and Su Split Add and Su Compensation – Compensation – Add 3-Digit Num Adding Colossal	Activities Title Ubtract Add Subtract bers: Exchanging (UK) Columns (UK)			
A2 Addition & subtraction problems Course Topic Autumn: Number (addition and subtraction)	Inverse operation Multi-step addition Compare calcula Find missing num Jump Add and Su Split Add and Su Compensation – Compensation – Add 3-Digit Num Adding Colossal Add Multi-Digit N	Activities Title Ubtract Add Subtract btract btract Columns (UK) Numbers 2 (UK)			
A2 Addition & subtraction problems Course Topic Autumn: Number (addition and subtraction)	Inverse operation Multi-step addition Compare calcula Find missing num Jump Add and Su Split Add and Su Compensation – Compensation – Add 3-Digit Num Adding Colossal Add Multi-Digit N	Activities Title Ubtract Add Subtract Subtract Subtract Add Subtract Subtract Columns (UK) Saal Columns (UK) Saal Columns (UK)			
A2 Addition & subtraction problems Course Topic Autumn: Number (addition and subtraction)	Inverse operation Multi-step addition Compare calcula Find missing num Jump Add and Su Split Add and Su Compensation – Compensation – Add 3-Digit Num Adding Colossal Add Multi-Digit N Subtracting Colo Estimate Sums	Activities Title Ubtract Activities Title Ubtract Add Subtract Ubtract Ubtract Add Subtract Ubtract Ub			
A2 Addition & subtraction problems Course Topic Autumn: Number (addition and subtraction)	Inverse operation Multi-step addition Compare calcula Find missing num Jump Add and Su Split Add and Su Compensation – Compensation – Add 3-Digit Num Adding Colossal Add Multi-Digit N Subtracting Colo Estimate Sums Estimate Differer	Activities Title Ubtract Activities Title Ubtract Add Subtract Add Subtract Add Columns (UK) Columns (UK) Saal Columns (UK)			

Number: Multiplication & Division A			
Curriculum Links Small Steps			
 Identify multiples and factors, 	Step 1 Multiples		
including fnding all factor pairs of a	Step 2 Common multiples		
number, and common factors of two	Step 3 Factors		
numbers	Step 4 Common factors		

		Step 5 Prime numbers		
Solve problems involv	ving	Step 6 Square numbers		
multiplication and div	nsion, including	Step / Cube numbers		
multiples, equares an	e of factors and	Step 8 Multiply by 10, 100 and 1,000		
multiples, squares an	la cubes	Step 9 Divide by 10, 100 and 1,000		
 Know and use the vo numbers, prime facto (non-prime) numbers 	cabulary of prime ors and composite	Step 10 Multiples of 10, 100 and 1,000		
 Establish whether a r is prime and recall pri to 19 	number up to 100 ime numbers up			
 Recognise and use so and cube numbers, a for squared (2) and co 	quare numbers nd the notation ubed (3)			
 Multiply and divide w and those involving d 100 and 1,000 	hole numbers lecimals by 10,			
Multiply and divide numbers mentally, drawing upon known facts				
drawing upon known	n facts			
drawing upon known Skill Ouests	n facts	Skills		
drawing upon known Skill Quests A3 Multiples & factors	n facts Multiples	Skills		
drawing upon known Skill Quests A3 Multiples & factors	n facts Multiples Common multiple	Skills		
drawing upon known Skill Quests A3 Multiples & factors	n facts Multiples Common multiple Factors	Skills		
drawing upon known Skill Quests A3 Multiples & factors	n facts Multiples Common multiple Factors Common factors	Skills es		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube	n facts Multiples Common multiple Factors Common factors Prime numbers	Skills es		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers	n facts Multiples Common multiple Factors Common factors Prime numbers Square numbers	Skills es		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers	n facts Multiples Common multiple Factors Common factors Prime numbers Square numbers Cube numbers	es		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers A3 Multiply & divide by 10,	n facts Multiples Common multiple Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 10	Skills es 00 & 1,000		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers A3 Multiply & divide by 10, 100 & 1000.	n facts Multiples Common multiple Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 10 Divide by 10, 100	Skills es 00 & 1,000 0 & 1,000		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers A3 Multiply & divide by 10, 100 & 1000.	n facts Multiples Common multiple Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 10 Divide by 10, 100 Multiples of 10, 1	Skills es 00 & 1,000 0 & 1,000 0 & 1,000 .00 & 1,000		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers A3 Multiply & divide by 10, 100 & 1000. Course Topic	n facts Multiples Common multiple Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 10 Divide by 10, 100 Multiples of 10, 1	Skills es 00 & 1,000 0 & 1,000 0 & 1,000 Activities Title		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers A3 Multiply & divide by 10, 100 & 1000. Course Topic Autumn: Number	n facts Multiples Common multiple Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 10 Multiples of 10, 1 Multiples	Skills es 00 & 1,000 0 & 1,000 0 & 1,000 Activities Title		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers A3 Multiply & divide by 10, 100 & 1000. Course Topic Autumn: Number (multiplication and division	n facts Multiples Common multiple Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 10 Divide by 10, 100 Multiples of 10, 1 Multiples Lowest Common	Skills es 00 & 1,000 0 & 1,000 0 & 1,000 Activities Title Multiple		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers A3 Multiply & divide by 10, 100 & 1000. Course Topic Autumn: Number (multiplication and division A)	n facts Multiples Common multiple Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 10 Multiples of 10, 1 Multiples Lowest Common Factors	Skills es 00 & 1,000 0 & 1,000 0 & 1,000 0 & 1,000 Activities Title Multiple		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers A3 Multiply & divide by 10, 100 & 1000. Course Topic Autumn: Number (multiplication and division A)	n facts Multiples Common multiple Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 10 Multiples of 10, 10 Multiples Lowest Common Factors Highest Common	Skills es 00 & 1,000 0 & 1,000 0 & 1,000 0 & 1,000 Activities Title Multiple n Factor		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers A3 Multiply & divide by 10, 100 & 1000. Course Topic Autumn: Number (multiplication and division A)	n facts Multiples Common multiple Factors Common factors Prime numbers Square numbers Square numbers Cube numbers Multiply by 10, 10 Multiples of 10, 1 Multiples of 10, 1 Multiples Lowest Common Factors Highest Common Square Roots	Skills es 00 & 1,000 0 & 1,000 0 & 1,000 0 & 1,000 Activities Title Multiple n Factor		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers A3 Multiply & divide by 10, 100 & 1000. Course Topic Autumn: Number (multiplication and division A)	facts Multiples Common multiple Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 10 Divide by 10, 100 Multiples of 10, 1 Lowest Common Factors Highest Common Square Roots Prime or Composition	Skills es 00 & 1,000 00 & 1,000 00 & 1,000 Activities Title Multiple n Factor site?		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers A3 Multiply & divide by 10, 100 & 1000. Course Topic Autumn: Number (multiplication and division A)	n facts Multiples Common multiple Factors Common factors Prime numbers Square numbers Square numbers Cube numbers Multiply by 10, 10 Multiples of 10, 10 Multiples of 10, 10 Multiples Lowest Common Factors Highest Common Square Roots Prime or Compos Multiplying by 10	Skills es 00 & 1,000 00 & 1,000 00 & 1,000 Activities Title Multiple n Factor site? 0, 100, 1000		
drawing upon known Skill Quests A3 Multiples & factors A3 Prime, square & cube numbers A3 Multiply & divide by 10, 100 & 1000. Course Topic Autumn: Number (multiplication and division A)	n facts Multiples Common multiple Factors Common factors Prime numbers Square numbers Square numbers Cube numbers Multiply by 10, 10 Multiples of 10, 1 Multiples of 10, 1 Multiples Lowest Common Factors Highest Common Square Roots Prime or Compos Multiplying by 10 Dividing Whole N	Skills es 00 & 1,000 0 & 1,000 0 & 1,000 0 & 1,000 Activities Title Multiple n Factor site? 0, 100, 1000 Numbers by 10, 100, 1000		

Number: Fractions A			
Curriculum Links	Small Steps		
Identify, name and write equivalent fractions	Step 1 Find fractions equivalent to a unit		
of a given fraction, represented visually,	fraction		
including tenths and hundredths	Step 2 Find fractions equivalent to a non-unit		
	fraction		

Recognize mixed numbers on	dimproper	Step 3 Recognise equivalent fractions	
fractions and convert from on	a improper	Step 3 Recognise equivalent fractions	
other and write mathematic	l statomente i 1	Step 4 Convert Improper fractions to mixed	
and write mathematica	i statements > 1		
as a mixea number		Step 5 Convert mixed numbers to improper	
Commence and early for stings		fractions	
compare and order fractions	whose	Step 6 Compare fractions less than 1	
aurel ar	s of the same	Step / Order fractions less than 1	
number		Step 8 Compare and order fractions greater	
December mixed surely and	dimproper	than 1	
fractions and convert from on	a improper	Step 9 Add and subtract fractions with the	
other and write methometics	l statements > 1	same denominator	
as a mixed number		Step 10 Add fractions within 1	
us u mixed humber		Step 11 Add fractions with total greater than	
Add and subtract fractions w	ith the same	1	
Add dia subtract fractions w	are that are	Step 12 Add to a mixed number	
multiples of the same number		Step 13 Add two mixed numbers	
Indupies of the sume number		Step 14 Subtract fractions	
		Step 15 Subtract from a mixed number	
		Step 16 Subtract from a mixed number –	
		breaking the whole	
		Step 17 Subtract two mixed numbers	
Skill Quests		Skills	
A4 Fractions A	Find equivalent p	proper fractions	
	Recognise equivalent fractions		
	Convert improper fractions to mixed numbers		
	Convert mixed numbers to improper fractions		
	Compare & order fractions less than 1		
	Compare & order	r fractions greater than 1	
A4 Adding & subtraction	Add & subtract f	ractions with the same denominator	
fractions	Add fractions within 1		
	Add fractions with total areater than 1		
	Add to a mixed number		
	Add two mixed numbers		
	Subtract fractions		
	Subtract from a mixed number		
	Subtract two mixed numbers		
Course Topic		Activities_Title	
Autumn: Number (fractions	Equivalent Fracti	on Wall 2	
A)	Equivalent Fractions		
	Identifying Fracti	ons Beyond 1	
	What Mixed Number Is Shaded?		
	Mixed and Improper Fractions on a Number Line		
	Counting with Fr	actions on a Number Line	
	Common Denom	ingtor	
	Add: No Commo	n Denominator	
	Add: No Common Denominator		
	Subtract: No Cor	nmon Denominator	
	Subtract: No Cor	nmon Denominator	
	Subtract: No Cor One Take Fractic	nmon Denominator on d Numbers	
	Subtract: No Cor One Take Fractic Add Unlike Mixed	nmon Denominator on d Numbers dixed Numbers	

Spring

Number: Multiplication & division B					
Curriculum Li	nks	Small Steps			
 Multiply numbers up t 1- or 2-digit number u 	o four digits by a Ising a formal	Step 1 Multiply up to a 4-digit number by a 1- digit number			
written method, inclue multiplication for 2-di	ding long git numbers	Step 2 Multiply a 2-digit number by a 2-digit number (area model)			
Divide up to four digit	s by a 1-digit	Step 3 Multiply a 2-digit number by a 2-digit			
number using the form method of short divisi	nal written on and interpret	Step 4 Multiply a 3-digit number by a 2-digit number			
remainders appropria context	tely for the	Step 5 Multiply a 4-digit number by a 2-digit number			
Solve problems involv	ing	Step 6 Solve problems with multiplication Step 7 Short division			
multiplication and div using their knowledge	ision, including of factors and	Step 8 Divide a 4-digit number by a 1-digit number			
multiples, squares and	d cubes	Step 9 Divide with remainders			
		Step 10 Efficient division			
		Step 11 Solve problems with multiplication			
		and division			
Skill Quests		Skills			
Sp1 Multiplication B	Multiply up to a 4-algit by a 1-algit number				
	Multiply a 2-digit by a 2-digit number (dred model)				
	Multiply a 3-digit by a 2-digit number				
	Multiply a 3-digit by a 2-digit number				
	Solve problems with multiplication				
Sp1 Division B	Short division				
	Divide a 4-digit by a 1-digit number				
	Divide with remainders				
	Efficient division				
Sp1 Multiplication & division problems	Solve problems v	vith multiplication & division			
Course Topic		Activities Title			
Spring: Number	Contracted Multi	plication			
(multiplication and division	Multiply 2 Digits Area Model				
В)	Multiply: 1-Digit	Number			
	Grid Methods 1				
	Grid Methods 2				
	Grid Methods 3				
	Divide: 1-Digit D	ivisor 2			
	Remainders by T	ables			

Number: Fractions B			
Curriculum Links Small Steps			
Multiply proper fractions and mixed	Step 1 Multiply a unit fraction by an integer		
numbers by whole numbers,	Step 2 Multiply a non-unit fraction by an		
supported by materials and diagrams	integer		

		Step 3 Multiply a mixed number by an integer	
 Solve problems involv 	ring increasingly	Step 4 Calculate a fraction of a quantity	
harder fractions to ca	lculate	Step 5 Fraction of an amount	
quantities, and fraction	ons to divide	Step 6 Find the whole	
quantities, including r	on-unit fractions	Step 7 Use fractions as operators	
where the answer is a	a whole number		
(Y4)			
Skill Quests		Skills	
Sp2 Multiplying fractions	Multiply a unit fraction by an integer		
	Multiply a non-unit fraction by an integer		
	Multiply a mixed number by an integer		
Sp2 Fraction problems	Calculate a fraction of a quantity		
	Fraction of an amount		
	Find the whole		
	Using fractions o	is operators	
Course Topic		Activities Title	
Spring: Number (fractions	Multiply Fraction by Whole Number		
B)	Fractions of a Collection 2		
	Fraction Length	Models 1	
	Fraction Word P	roblems	
	Fraction Fruit Sets 1		

Number: Decimals and percentages				
Curriculum Links	Small Steps			
Read, write, order and compare	Step 1 Decimals up to 2 decimal places			
numbers with up to 3 decimal places	Step 2 Equivalent fractions and decimals (tenths)			
 Read and write decimal numbers as fractions 	Step 3 Equivalent fractions and decimals (hundredths)			
	Step 4 Equivalent fractions and decimals			
 Identify, name and write equivalent 	Step 5 Thousandths as fractions			
fractions of a given fraction,	Step 6 Thousandths as decimals			
represented visually, including tenths	Step 7 Thousandths on a place value chart			
and hundredths	Step 8 Order and compare decimals (same number of decimal places)			
Solve problems which require	Step 9 Order and compare any decimals with			
knowing percentage and decimal	up to 3 decimal places			
equivalents of 1/2, 1/4, 1/5, 2/5, 4/5	Step 10 Round to the nearest whole number			
and those fractions with a	Step 11 Round to 1 decimal place			
denominator of a multiple of 10 of 25	Step 12 Understand percentages			
 Recognise and use thousand the and 	Step 13 Percentages as fractions			
 Recognise and use mousanadis and relate them to tenths, hundredths, and 	Step 14 Percentages as decimals			
decimal equivalents	Step 15 Equivalent fractions, decimals and percentages			
 Solve problems involving numbers up to 3 decimal places 				
• Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place				

 Recognise the per cer and understand that to "number of parts p write percentages as denominator 100, and fraction 	nt symbol (%) per cent relates er 100", and a fraction with d as a decimal		
Skill Quests		Skills	
Sp3 Decimals & fractions	Decimals up to 2	decimal places	
	Equivalent fraction	ons & decimals (tenths)	
	Equivalent fractions & decimals (hundredths)		
	Equivalent fractions & decimals		
Sp3 Thousandths	Working with thousandths		
	Order & compare decimals up to 3 decimal places		
Sp3 Rounding decimals	Round to the nearest whole number		
	Round to 1 decimal place		
Sp3 Percentages	Understand percentages		
	Percentages as fractions		
	Percentages as decimals		
	Equivalent fractions, decimals & percentages		
Course Topic		Activities Title	
Spring: Number (decimals	Convert Decimals to Fractions 2		
and percentages)	Decimals to Fractions 2		
	Decimal Order 1		
	Decimals on a Number Line		
	Comparing Decimals		
	Rounding Decimals 1		
	Modelling Percentages		

Measurement: Perimeter & Area		
Curriculum Links		Small Steps
Measure and calculate the perimeter		Step 1 Perimeter of rectangles
of composite rectilinear shapes in		Step 2 Perimeter of rectilinear shapes
centimetres and metr	es	Step 3 Perimeter of polygons
		Step 4 Area of rectangles
Calculate and compa	re the area of	Step 5 Area of compound shapes
rectangles (including	squares),	Step 6 Estimate area
including using stand	ard units, square	
centimetres (cm2) and	d square metres	
(m2), and estimate th	e area of	
Irregular shapes		
		SKIIIS
Sp4 Perimeter	Perimeter of rect	angles
Sp4 Perimeter	Perimeter of rect Perimeter of rect	SKIIIS angles ilinear shapes
Sp4 Perimeter	Perimeter of rect Perimeter of rect Perimeter of poly	SKIIIS angles ilinear shapes igons
Sp4 Perimeter	Perimeter of rect Perimeter of rect Perimeter of poly	SKIIIS angles ilinear shapes gons
Sp4 Perimeter Sp4 Area	Perimeter of rect Perimeter of rect Perimeter of poly Area of rectangle	SKIIIS angles ilinear shapes rgons
Sp4 Perimeter Sp4 Area	Perimeter of rect Perimeter of rect Perimeter of poly Area of rectangle Area of compour	SKIIIS angles ilinear shapes igons es ad shapes
Sp4 Perimeter Sp4 Area	Perimeter of rect Perimeter of poly Perimeter of poly Area of rectangle Area of compour Estimate area	SKIIIS angles ilinear shapes igons es es ed shapes
Sp4 Perimeter Sp4 Area Course Topic	Perimeter of rect Perimeter of rect Perimeter of poly Area of rectangle Area of compour Estimate area	SKIIIS angles ilinear shapes rgons es ad shapes Activities Title
Sp4 Perimeter Sp4 Area Course Topic Spring: Measurement	Perimeter of rect Perimeter of poly Area of rectangle Area of compour Estimate area Perimeter of Sha	SKIIIS angles ilinear shapes rgons es ad shapes Activities Title pes
Sp4 Perimeter Sp4 Area Course Topic Spring: Measurement (perimeter and area)	Perimeter of rect Perimeter of poly Area of rectangle Area of compour Estimate area Perimeter of Sha Calculate Perime	SKIIIS angles ilinear shapes rgons es ad shapes Activities Title pes ter of Squares and Rectangles

Perimeter Detectives 1
Area: Squares and Rectangles
Area: Compound Figures

Statistics		
Curriculum Links Small Steps		Small Steps
Solve comparison, sum and difference		Step 1 Draw line graphs
problems using inform	nation presented	Step 2 Read and interpret line graphs
in a line graph		Step 3 Read and interpret tables
		Step 4 Two-way tables
 Complete, read and ir 	iterpret	Step 5 Read and interpret timetables
information in tables,	including	
timetables		
Skill Quests		Skills
Sp5 Statistics	Draw line graphs	5
	Read & interpret	line graphs
	Read & interpret	tables
	Two-way tables	
Read & interpre		timetables
Course Topic		Activities Title
Spring: Statistics	Line Graphs: Explanation	
	Interpreting Data	a Tables
	Using Timetables	5

Summer

Geometry: Shape		
Curriculum Links		Small Steps
Know angles are measured in		Step 1 Understand and use degrees
degrees: estimate and compare acute,		Step 2 Classify angles
obtuse and reflex and	les	Step 3 Estimate angles
		Step 4 Measure angles up to 180°
 Draw given angles, and 	nd measure	Step 5 Draw lines and angles accurately
them in degrees (°)		Step 6 Calculate angles around a point
		Step 7 Calculate angles on a straight line
 Identify angles at a point 	oint and 1 whole	Step 8 Lengths and angles in shapes
turn (total 360°)		Step 9 Regular and irregular polygons
		Step 10 3-D shapes
 Identify: angles at a p 	oint and 1 whole	
turn (total 360°); angl	es at a point on	
a straight line and ha	lf a turn (total	
180°)		
Ose the properties of deduce related facts (rectangles to	
lengths and angles	and find missing	
 Distinguish between i 	regular and	
irregular polygons ba	sed on reasoning	
about equal sides and	d angles	
 Identify 3-D shapes, it 	ncluding cubes	
and other cuboids, fro	om 2-D	
representations		
Skill Quests		Skills
Sum1 Angles	Understand & us	e degrees
	Classify angles	
	Estimate & meas	ure angles up to 180°
	Draw lines & and	gles accurately
	Calculate angles	around a point
	Calculating angle	es on a straight line
	Lengths & angles	s in shapes
Sum1 Polygons	Regular & irregular polygons	
Sum1 3-D shapes	3-D shapes	
Course Topic		Activities Title
Summer: Geometry (shape)	What Type of Ar	ngle?
	Classifying Angle	25
	Estimating Angle	25
	Angles in a Revo	lution
	Angles of revolut	ion: Unknown Values
	How Many Faces	5?
	How many Edge	s?
	How many Vertic	ces?
	Faces, Edges, an	d Vertices 1

Geometry: Position and direction		
Curriculum Links		Small Steps
Identify, describe and represent the		Step 1 Read and plot coordinates
position of a shape following a		Step 2 Problem solving with coordinates
reflection or translation, using the		Step 3 Translation
appropriate language	e, and know that	Step 4 Translation with coordinates
the shape has not cho	anged	Step 5 Lines of symmetry
		Step 6 Reflection in horizontal and vertical
		lines
Skill Quests		Skills
Sum2 Position & direction	Read & plot coor	dinates
	Problem solving	with coordinates
	Translation	
	Translation with	coordinates
	Lines of symmet	ry
	Reflection in hor	izontal & vertical lines
Course Topic		Activities Title
Summer: Geometry	Coordinate Graphs: 1st Quadrant	
(position and direction)	Transformations	
	Symmetry or No	t?
	Lines of Symmet	ry
	Transformations	: Coordinate Plane

Number: Decimals		
Curriculum Links		Small Steps
 Recognise and use thousandths and relate them to tenths, hundredths and 		Step 1 Use known facts to add and subtract decimals within 1
decimal equivalents		Step 2 Complements to 1
		Step 3 Add and subtract decimals across 1
 Solve problems involv to 3 decimal places 	ving number up	Step 4 Add decimals with the same number of decimal places
Read, write, order and	d compare	Step 5 Subtract decimals with the same number of decimal places
numbers with up to 3	decimal places	Step 6 Add decimals with different numbers of decimal places
 Multiply and divide whole numbers and those involving decimals by 10, 		Step 7 Subtract decimals with different numbers of decimal places
100 and 1,000		Step 8 Efficient strategies for adding and subtracting decimals
		Step 9 Decimal sequences
		Step 10 Multiply by 10, 100 and 1,000
		Step 11 Divide by 10, 100 and 1,000
		Step 12 Multiply and divide decimals – missing values
Skill Quests		Skills
Sum3 Add & subtract	Use known facts	add & subtract decimals within 1
decimals	Complements to	1
	Add & subtract c	lecimals across 1
	Add decimals wi	th same number of decimal places
	Subtract decima	ls same number of decimal places
	Add decimals dif	ferent number of decimal places

	Subtract decimals in different place values	
	Efficient strategies to add & subtract decimals	
	Decimal sequences	
Sum3 Multiply & divide	Multiply by 10, 100 & 1,000	
decimals	Divide by 10, 100 & 1,000	
	Multiply & divide decimals - missing values	
Course Topic	Activities Title	
Summer: Number (decimals)	Decimal Complements	
	Subtract Decimals 1	
	Add Decimals 1	
	Adding Decimals	
	Subtract Decimals 2	
	Subtracting Decimals	
	Adding and Subtracting Decimals	
	Multiply Decimals: 10, 100, 1000	
	Divide Decimals: 10, 100, 1000	

Number: Negative numbers		
Curriculum Links		Small Steps
 Interpret negative numbers in context, 		Step 1 Understand negative numbers
count forwards and b	ackwards with	Step 2 Count through zero in 1s
positive and negative	whole numbers,	Step 3 Count through zero in multiples
including through zer	C	Step 4 Compare and order negative numbers
		Step 5 Find the difference
Skill Quests	Skills	
Sum4 Negative numbers	Working with negative numbers	
Course Topic	Activities Title	
Summer: Number (negative	Integers on a Number Line	
numbers)	Comparing Integers	
	Ordering Integers (Number Line)	

Measurement: Converting units		
Curriculum Links		Small Steps
Convert between diffe	erent units of	Step 1 Kilograms and kilometres
metric measure [for ex	kample,	Step 2 Millimetres and millilitres
kilometre and metre; o	centimetre and	Step 3 Convert units of length
metre; centimetre and	millimetre;	Step 4 Convert between metric and imperial
gram and kilogram; lit	re and millilitre]	units
		Step 5 Convert units of time
 Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints 		Step 6 Calculate with timetables
 Solve problems involv 	ing converting	
between units of time		
Skill Quests		Skills
Sum5 Converting units	Kilograms & kilometres	
	Millimetres & mill	ilitres
	Convert units of	length

	Convert between imperial & metric units	
	Convert units of time	
	Calculate with timetables	
Course Topic	Activities Title	
Summer: Measurement	Grams and Kilograms	
(converting units)	Metres and Kilometres	
	Grams and Milligrams	
	Millilitres and Litres	
	Converting Units of Length	
	Converting cm and mm	
	Centimetres and Metres	
	Ounces and Pounds	
	Inches, Feet, Yards	
	Cups, Pints, Quarts, Gallons	
	Time Conversions: Simple Fractions	
	Time Zones	

Measurement: Volume		
Curriculum Links		Small Steps
• Estimate volume [for example, using 1		Step 1 Cubic centimetres
cm3 blocks to build cu	uboids (including	Step 2 Compare volume
cubes)] and capacity		Step 3 Estimate volume
		Step 4 Estimate capacity
 Estimate volume and capacity [for 		
example, using water]	
Skill Quests		Skills
Sum6 Volume	Cubic centimetre	S
	Comparing & est	imating volume
	Estimate capacit	у
Course Topic		Activities Title
Summer: Measurement	How many Blocks?	
(volume)	Volume of Solids	and Prisms - 1 cm3 blocks

Problem solving		
Course Topic	Activities Title	
Problem solving	Pyramid Puzzles 2	
	I am Thinking of a Number!	
	Missing Numbers: x and ÷ facts	
	Find the Missing Number 2	

Year 6

Yearly Overview

	Week	Week	Week	Week	Week	Week	Week	Week	Week	Week	Week	Week
Autumn	Numb Place	value	3 Numb Additi multip	er: ion, sub ¹ ilication	tractior and di	n, vision		8 Numbo Fractio	er: ons A	Number Fraction	: IS B	Measurement: Converting units
Spring	Number: Numb Ratio Algeb		er: ra	Number: Numb Decimals Fraction decim and percer		er: ons, als itages	Measu Area, perime volume	rement: eter and e	Statis	tics		
Summer	Geometry: Shapes		Geometry: Position and direction	Them	ed proj	ects, cor	nsolidat	ion and	problem	solving		

Autumn

Number: Place value					
Curriculum Li	nks	Small Steps			
Read, write, order and	d compare	Step 1 Numbers to 1,000,000			
numbers up to 10,000),000 and	Step 2 Numbers to 10,000,000			
determine the value o	f each digit	Step 3 Read and write numbers to 10,000,000			
		Step 4 Powers of 10			
Solve number and pro	actical problems	Step 5 Number line to 10,000,000			
that involve the above	2	Step 6 Compare and order any integers			
	alaaw ta a	Step 7 Round any integer			
 Round dny whole hun required degree of get 	nber to d	Step 8 Negative numbers			
required degree of do	Lurucy				
 Use negative number 	s in context and				
calculate intervals acr	oss zero				
Skill Quests		Skills			
A1 Place value	Read & write numbers to 10,000,000				
	Powers of 10				
	Number line to 10,000,000				
	Compare & order any integers				
	Round any integers				
A1 Negative numbers	Negative numbe	rs			
Course Topic		Activities Title			
Autumn: Number (place	Place Value to M	illions			
value)	Place Value – Millions				
	Numbers from Words to Digits 2				
	Expanded Notation				
	Comparing Numbers				
	Rounding Numbers				
	Nearest 1000?				
	Nearest Whole N				
	Comparing Integers (<, =, >)				
	Integers on a Number Line				
	Ordering Integers (Number Line)				

Number: Addition, subtraction, multiplication and division			
Curriculum Links	Small Steps		
Solve addition and subtraction multi-	Step 1 Add and subtract integers		
step problems in contexts, deciding	Step 2 Common factors		
which operations and methods to use	Step 3 Common multiples		
and why	Step 4 Rules of divisibility		
 Solve problems involving addition, subtraction, multiplication and division 	Step 5 Primes to 100		
	Step 6 Square and cube numbers		
	Step 7 Multiply up to a 4-digit number by a 2-		
	digit number		
Use estimation to check answers to	Step 8 Solve problems with multiplication		
calculations and determine, in the	Step 9 Short division		
context of a problem, an appropriate	Step 10 Division using factors		
degree of accuracy	Step 11 Introduction to long division		

		Step 12 Long division with remainders
Identify common fact	ors, common	Step 13 Solve problems with division
multiples and prime i	numbers	Step 14 Solve multi-step problems
		Step 15 Order of operations
Multiply multi-digit n	umbers up to four	Step 16 Mental calculations and estimation
digits by a 2-digit wh the formal written m multiplication	nole number using ethod of long	Step 17 Reason from known facts
 Perform mental calcu with mixed operation numbers 	ulations, including as and large	
 Divide numbers up to 2-digit number using written method of sh where appropriate, in remainders according 	o four digits by a the formal ort division nterpreting g to the context	
 Use their knowledge operations to carry o involving the four operation 	of the order of ut calculations erations	
 Use estimation to che calculations and dete context of a problem degree of accuracy 	eck answers to ermine, in the , an appropriate	
Skill Quests		Skills
Skill Quests	Add & subtract in	Skills
Skill Quests A2 Addition & subtraction A2 Factors & multiples	Add & subtract in Common factors	Skills ntegers
Skill Quests A2 Addition & subtraction A2 Factors & multiples	Add & subtract in Common factors Common multipl	Skills ntegers es
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 Divisibility	Add & subtract in Common factors Common multiple Bules of divisibili	Skills ntegers es tv
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime square & cube	Add & subtract in Common factors Common multiple Rules of divisibili	Skills ntegers es ty
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbers	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100	Skills ntegers es ty
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 Multiplication	Add & subtract in Common factors Common multipl Rules of divisibili Primes to 100 Square & cube n	Skills ntegers es ty umbers 1-digit number by 2-digit number
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 Multiplication	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve probleme	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 Multiplication	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems w	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 MultiplicationA2 Division	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems w Short division	Skills ntegers es ty umbers 4-digit number by 2-digit number vith multiplication
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 MultiplicationA2 Division	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems w Short division Division using fa	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication ctors pred division
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 MultiplicationA2 Division	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems v Short division Division using fa Introduction to lo	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication ctors ong division
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 MultiplicationA2 Division	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems w Short division Division using fa Introduction to lo Long division wit	Skills htegers es ty umbers 4-digit number by 2-digit number with multiplication ctors ong division th remainders either division
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 MultiplicationA2 Division	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems v Short division Division using fa Introduction to lo Long division with Solve problems v	Skills htegers es ty umbers 4-digit number by 2-digit number with multiplication ctors ong division th remainders with division
Skill Quests A2 Addition & subtraction A2 Factors & multiples A2 Divisibility A2 Prime, square & cube numbers A2 Multiplication A2 Division	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems v Short division Division using fa Introduction to lo Long division with Solve problems v	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication ctors ong division th remainders with division
Skill Quests A2 Addition & subtraction A2 Factors & multiples A2 Divisibility A2 Prime, square & cube numbers A2 Multiplication A2 Division	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems v Short division Division using fa Introduction to lo Long division with Solve problems v Solve problems v	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication ctors ong division ch remainders with division problems
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 MultiplicationA2 DivisionA2 Multiplication & divisionproblems	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems w Short division Division using fa Introduction to log Long division with Solve problems w Solve problems w Solve problems w Order of operation	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication ctors ong division ch remainders with division problems ons
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 MultiplicationA2 DivisionA2 Multiplication & divisionA2 Multiplication & divisionA2 Multiplication & divisionA2 Multiplication & divisionstrategies	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems v Short division Division using fa Introduction to loc Long division wit Solve problems v Solve nulti-step Order of operation Mental calculation	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication ctors ong division ch remainders with division problems ons & estimation
Skill Quests A2 Addition & subtraction A2 Factors & multiples A2 Divisibility A2 Prime, square & cube numbers A2 Multiplication A2 Division A2 Multiplication & division problems A2 Multiplication & division	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems w Short division Division using fa Introduction to loc Long division with Solve problems w Solve problems w	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication ctors ong division ch remainders with division problems ons & estimation own facts
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 MultiplicationA2 DivisionA2 DivisionA2 Multiplication & divisionproblemsA2 Multiplication & divisionstrategiesCourse Topic	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems w Short division Division using fa Introduction to loc Long division with Solve problems w Solve of operation Mental calculation Reason from know	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication ctors ong division ch remainders with division problems ons estimation own facts Activities Title
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 MultiplicationA2 DivisionA2 DivisionA2 Multiplication & divisionproblemsA2 Multiplication & divisionstrategiesCourse TopicAutumn: Number (addition,	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems v Short division Division using fa Introduction to late Long division with Solve problems v Solve multi-step Order of operation Mental calculation Reason from known Add Multi-Digit N	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication ctors ong division ctors ong division ctors ong division ctors ons ons & estimation own facts Activities Title Numbers 2 (UK)
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 MultiplicationA2 DivisionA2 DivisionA2 Multiplication & divisionproblemsA2 Multiplication & divisionstrategiesCourse TopicAutumn: Number (addition,subtraction, multiplication	Add & subtract in Common factors Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems w Short division Division using fa Introduction to lo Long division with Solve problems w Solve multi-step Order of operation Mental calculation Reason from known Add Multi-Digit N Estimation: Add	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication ctors ong division ctors ong division ctors ong division ctors ons ons & estimation own facts Activities Title Numbers 2 (UK) and Subtract
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 MultiplicationA2 DivisionA2 DivisionA2 Multiplication & divisionproblemsA2 Multiplication & divisionstrategiesCourse TopicAutumn: Number (addition,subtraction, multiplicationand division)	Add & subtract in Common factors Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems w Short division Division using fa Introduction to lo Long division with Solve problems w Solve problems w	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication ctors ong division ctors ong division ch remainders with division problems ons ons & estimation own facts Activities Title Numbers 2 (UK) and Subtract ssal Columns (UK)
Skill QuestsA2 Addition & subtractionA2 Factors & multiplesA2 DivisibilityA2 Prime, square & cubenumbersA2 MultiplicationA2 DivisionA2 DivisionA2 Multiplication & divisionproblemsA2 Multiplication & divisionstrategiesCourse TopicAutumn: Number (addition, subtraction, multiplicationand division)	Add & subtract in Common factors Common multiple Rules of divisibili Primes to 100 Square & cube n Multiply up to a 4 Solve problems v Short division Division using fa Introduction to lo Long division with Solve problems v Solve problems v Solve problems v Solve problems v Add Multi-Step Order of operation Mental calculation Reason from know Add Multi-Digit N Estimation: Add Subtracting Colo Lowest Common	Skills ntegers es ty umbers 4-digit number by 2-digit number with multiplication ctors ong division th remainders with division problems ons & estimation own facts Activities Title Numbers 2 (UK) and Subtract ssal Columns (UK) Multiple

Greatest Common Factor
Divisibility Tests
Prime or Composite?
Square Roots
Mental Methods Multiplication 1
Mental Methods Division 1
Estimation: Multiply and Divide
Contracted Multiplication
Long Multiplication
Short Division
Remainders by Tables
Divide: 1-Digit Divisor 1
Divide: 1-Digit Divisor 2
Long Division 1
Long Division
Order of Operations 1 (BIDMAS)

Number: Fractions A					
Curriculum Li	nks	Small Steps			
Use common factors	to simplify	Step 1 Equivalent fractions and simplifying			
fractions; use commo	n multiples to	Step 2 Equivalent fractions on a number line			
express fractions in th	ne same	Step 3 Compare and order (denominator)			
denomination		Step 4 Compare and order (numerator)			
		Step 5 Add and subtract simple fractions			
Compare and order fr	actions,	Step 6 Add and subtract any two fractions			
including fractions > 1	L	Step 7 Add mixed numbers			
• Add and subtrast fra		Step 8 Subtract mixed numbers			
Add and subtract frac different deneminated	ctions with	Step 9 Multi-step problems			
allerent denomination	s und mixed				
equivalent fractions	лсерсог				
equivalent fractions					
 Identify common factor 	ors. common				
multiples and prime n	umbers				
 Solve addition and su 	btraction multi-				
step problems in cont	exts, deciding				
which operations and	l methods to use				
and why					
Skill Quests		Skills			
A3 Equivalent fractions	Equivalent fractions & simplifying				
	Equivalent fractions on a number line				
A3 Compare & order	Compare & order (denominator)				
fractions	Compare & order (numerator)				
A3 Add & subtract fractions	Add & subtract simple fractions				
	Add & subtract any two fractions				
	Add mixed numbers				
	Subtract mixed numbers				
A3 Fraction problems	Multi-step proble	ems			
Course Topic		Activities Title			
Autumn: Number (fractions	Simplifying Fractions				
A)	Identifying fraction	ons beyond 1			

Equivalent Fractions on a Number Line 2
Comparing Fractions 2
Ordering Fractions 1
Counting with Fractions on a Number Line
Fraction Wall Labelling 1
Add Unlike Fractions
Add Like Mixed Numbers
Add Unlike Mixed Numbers
Subtract Unlike Fractions
Subtract Unlike Mixed Numbers
No Common Denominator
Mixed Numerals

Number: Fractions B						
Curriculum Li	nks	Small Steps				
Multiply proper fraction	ons and mixed	Step 1 Multiply fractions by integers				
numbers by whole nu	imbers,	Step 2 Multiply fractions by fractions				
supported by materia	ls and diagrams	Step 3 Divide a fraction by an integer				
(Y5)		Step 4 Divide any fraction by an integer				
	_	Step 5 Mixed questions with fractions				
Multiply simple pairs	of proper	Step 6 Fraction of an amount				
simplest form	answer in its	Step 7 Fraction of an amount – find the whole				
 Divide proper fraction numbers 	ns by whole					
 Solve problems involve 	vina addition.					
subtraction, multiplice	ation and division					
, i						
Associate a fraction v	vith division and					
calculate decimal frac	tion equivalents					
Skill Quests		Skills				
A4 Multiply & divide	Multiply fractions	s by integers				
fractions	Multiply fractions by fractions					
	Divide a fraction by an integer					
	Mixed questions with fractions					
A4 Fraction of an amount	Fraction of an amount					
	Fraction of an amount - find the whole					
Course Topic		Activities Title				
Autumn: Number (fractions	Model Fractions to Multiply					
B)	Multiply Fraction by Whole Number					
	Multiply: Whole Number and Fraction					
	Multiply Fraction by Fraction					
	Multiply Two Fractions 1					
	Divide Fractions Visual Model					
	Fraction of an Amount					
	Fraction Word Problems					

Measurement: Converting units					
Curriculum Li	nks	Small Steps			
 Solve problems involv 	ring the	Step 1 Metric measures			
calculation and conve	ersion of units of	Step 2 Convert metric measures			
measure, using decim	al notation up to	Step 3 Calculate with metric measures			
3 decimal places whe	re appropriate	Step 4 Miles and kilometres			
 Use, read, write and c standard units, conver- measurements of leng volume and time from measure to a larger u versa, using decimal r 3 decimal places 	convert between rting gth, mass, a a smaller unit of nit, and vice notation to up to	Step 5 Imperial measures			
Skill Quests		Skills			
A5 Converting units	Metric measures				
	Convert metric measures				
	Calculate with metric measures				
	Miles & kilometre	S			
	Imperial measures				
Course Topic		Activities Title			
Autumn: Measurement	Which Unit of Measurement?				
(converting units)	Converting cm and mm				
	Centimetres and Metres				
	Metres and Kilometres				
	Converting Units of Length				
	Grams and Kilograms				
	Converting Units	of Mass			
	Millilitres and Litres				
	Time Conversions: Simple Fractions				

Spring

Number: Ratio					
Curriculum Li	nks	Small Steps			
Solve problems involv	ing the relative	Step 1 Add or multiply?			
sizes of two quantities	s where missing	Step 2 Use ratio language			
values can be found b	y using integer	Step 3 Introduction to the ratio symbol			
multiplication and div	ision facts	Step 4 Ratio and fractions			
.		Step 5 Scale drawing			
Solve problems involv	ing unequal	Step 6 Use scale factors			
sharing and grouping	using	Step 7 Similar shapes			
knowledge of fraction	s and multiples	Step 8 Ratio problems			
	in a sincilar	Step 9 Proportion problems			
 Solve problems involv 	ing similar	Step 10 Recipes			
known or can be foun					
Skill Quests	G	Skille			
Skill Quests	Lleina ratio langu				
SPI Rullo	Untraduction to the ratio symbol				
	Datia & fractiona				
	Ratio & Indutions				
	Scale drawing & using scale ractors				
	Datio problems				
	Proportion problems				
Course Touis	Recipes				
Course Topic		Activities litie			
Spring: Ratio	Word Problems:	Ratio			
	Best Buy				
	Dividing a Quantity in a Ratio				

Number: Algebra				
Curriculum Li	nks	Small Steps		
Use simple formulae		Step 1 1-step function machines		
		Step 2 2-step function machines		
Generate and describ	e linear number	Step 3 Form expressions		
sequences		Step 4 Substitution		
		Step 5 Formulae		
 Find pairs of numbers 	that satisfy an	Step 6 Form equations		
equation with two un	knowns	Step 7 Solve 1-step equations		
		Step 8 Solve 2-step equations		
Enumerate possibilitie	es of	Step 9 Find pairs of values		
combinations of two	/ariables	Step 10 Solve problems with two unknown		
Express missing numl alaebraically	per problems			
Skill Quests		Skills		
Sp2 Function machines	1-step function machines			
	2-step function machines			
Sp2 Algebra	Form expressions			
	Substitution			
	Formulae			

	Form equations		
	Solve 1-step equations		
	Solve 2-step equations		
	Find pairs of values		
	Solve problems with two unknowns		
Course Topic	Activities Title		
Spring: Algebra	Writing Algebraic Expressions		
	Simple Substitution 1		
	I am Thinking of a Number!		
	Missing Numbers: Variables		
	Solve Equations: Add, Subtract 1		
	Solve Equations: Multiply, Divide 1		
	Write an Equation: Word Problems		
	Function Rules and Tables		

Number: Decimals		
Curriculum Links		Small Steps
Identify the value of each digit in		Step 1 Place value within 1
numbers given to 3 decimal places		Step 2 Place value – integers and decimals
and multiply and divide numbers by		Step 3 Round decimals
10, 100 and 1,000 giving answers up		Step 4 Add and subtract decimals
to 3 decimal places		Step 5 Multiply by 10, 100 and 1,000
		Step 6 Divide by 10, 100 and 1,000
Solve problems which require		Step 7 Multiply decimals by integers
answers to be rounded to specified		Step 8 Divide decimals by integers
degrees of accuracy		Step 9 Multiply and divide decimals in context
 Solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why Multiply 1-digit numbers with up to 2 decimal places by whole numbers Use written division methods in cases where the answer has up to 2 decimal places Solve problems involving addition 		
Skill Quests		Skille
Sn3 Place value decimals	Place value with	
Sp51 luce value decimals	Round decimals	
Sp3 Add & subtract		lecimals
decimals		
Sp3 Multiply & divide	Multiply by 10, 100 & 1,000	
decimals	Divide by 10, 100	0 & 1,000
	Multiply decimals	s by integers
	Divide decimals I	by integers

Course Topic	Activities Title
Spring: Number (decimals)	Decimals from Words to Digits 2
	Decimal Place Value
	Rounding Decimals 1
	Adding and Subtracting Decimals
	Multiply Decimals: 10, 100, 1000
	Divide Decimals: 10, 100, 1000
	Decimal by Whole Number

Number: Fractions, decimals and percentages		
Curriculum Links		Small Steps
Use common factors to simplify		Step 1 Decimal and fraction equivalents
fractions; use common multiples to		Step 2 Fractions as division
express fractions in the same		Step 3 Understand percentages
denomination		Step 4 Fractions to percentages
		Step 5 Equivalent fractions, decimals and
Associate a fraction with division and		percentages
calculate decimal fraction equivalents for a simple fraction		Step 6 Order fractions, decimals and
		percentages
		Step 7 Percentage of an amount – one step
Recall and use equive	llences between	Step 8 Percentage of an amount – multi-step
simple fractions, decil	nais ana	Step 9 Percentages – missing values
percentages, includin	g in different	
contexts		
Compare and order fr	actions	
including fractions >1	detions,	
 Solve problems involv 	ring the	
calculation of percent	ages and the	
use of percentages fo	r comparison	
Skill Quests		Skills
Sp4 Fractions & decimals	Decimal & fraction	on equivalents
	Fraction as divisi	on
Sp4 Percentages	Understand perc	entages
	Fractions to perc	entages
	Equivalent fraction	ons, decimals & percentages
	Order fractions, o	decimals & percentages
	Percentage of ar	amount
	Percentages - m	issing values
Course Topic		A ctivition Title
Spring: Number (fractions,		Activities fille
	Decimals to Frac	tions 1
decimals and percentages)	Decimals to Frac Fraction to Term	tions 1 inating Decimal
decimals and percentages)	Decimals to Frac Fraction to Term Fractions to Deci	tions 1 inating Decimal mals
decimals and percentages)	Decimals to Frac Fraction to Term Fractions to Deci Fractions to Deci	tions 1 inating Decimal mals mals 2
decimals and percentages)	Decimals to Frac Fraction to Term Fractions to Deci Fractions to Deci Fractions to Perc	tions 1 inating Decimal mals mals 2 eentages (Non-Calculator)
decimals and percentages)	Decimals to Frac Fraction to Term Fractions to Deci Fractions to Deci Fractions to Perc Common Fractio	tions 1 inating Decimal mals mals 2 ientages (Non-Calculator) ns as Percentages
decimals and percentages)	Decimals to Frac Fraction to Term Fractions to Deci Fractions to Deci Fractions to Perc Common Fractio Match Decimals	tions 1 inating Decimal mals mals 2 eentages (Non-Calculator) ns as Percentages and Percentages
decimals and percentages)	Decimals to Frac Fraction to Term Fractions to Deci Fractions to Deci Fractions to Perc Common Fractio Match Decimals Calculating Perce	tions 1 inating Decimal mals mals 2 centages (Non-Calculator) ns as Percentages and Percentages entages 1

Measurement: Area, perimeter & volume		
Curriculum Links		Small Steps
• Recognise that shapes with the same		Step 1 Shapes – same area
areas can have different perimeters		Step 2 Area and perimeter
and vice versa		Step 3 Area of a triangle – counting squares
		Step 4 Area of a right-angled triangle
 Recognise when it is possible to use 		Step 5 Area of any triangle
formulae for area and volume of shapes		Step 6 Area of a parallelogram
		Step 7 Volume – counting cubes
Calculate the area of parallelograms and triangles		Step 8 Volume of a cuboid
 Recognise when it is possible to use formulae for area and volume of shapes 		
 Calculate, estimate an volume of cubes and standard units, includ centimetres (cm3) and (m3), and extending t 	nd compare cuboids using ing cubic d cubic metres o other units	
Skill Quests		Skills
Sp5 Area & perimeter	Shapes - same a	irea
	Area & perimeter	ſ
	Area of a triangle	e - counting squares
	Area of a right-a	ngled triangle
	Area of any trian	ıgle
	Area of a paralle	logram
Sp5 Volume	Volume - countir	ng cubes
	Volume of a cubo	bid
Course Topic		Activities Title
Spring: Measurement (area,	Perimeter	
perimeter and volume)	Area: Squares ar	nd Rectangles
	Area of Triangles	5
	Area: Parallelogr	ams (Metric)
	Volume of Solids	and Prisms - 1cm ³ blocks
	Volume: Rectanc	jular Prisms 1

Statistics		
Curriculum Links	Small Steps	
 Interpret and construct pie charts and 	Step 1 Line graphs	
line graphs and use these to solve	Step 2 Dual bar charts	
problems	Step 3 Read and interpret pie charts	
	Step 4 Pie charts with percentages	
 Interpret and present discrete and 	Step 5 Draw pie charts	
continuous data using appropriate graphical methods, including bar charts and time graphs (Year 4)	Step 6 The mean	
Calculate and interpret the mean as an average		

Skill Quests	Skills
Sp6 Statistics	Line graphs
	Dual bar charts
	Read & interpret pie charts
	Pie charts with percentages
	Draw pie charts
	The mean
Course Topic	Activities Title
Spring: Statistics	Line Graphs: Explanation
	Identify Parts of Circles 1
	Identify Parts of Circles 1 Pie Charts
	Identify Parts of Circles 1 Pie Charts Pie Chart Calculations
	Identify Parts of Circles 1 Pie Charts Pie Chart Calculations The Mean

Summer

Geometry: Shape		
Curriculum Li	nks	Small Steps
 Recognise angles wh a point, are on a straivertically opposite, an angles 	ere they meet at ght line, or are Id find missing	Step 1 Measure and classify anglesStep 2 Calculate anglesStep 3 Vertically opposite anglesStep 4 Angles in a triangle
 Draw given angles, and them in degrees (°) (Y 	nd measure 5)	Step 5 Angles in a triangle – special cases Step 6 Angles in a triangle – missing angles Step 7 Angles in a quadrilateral
 Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles (Y5) 		Step 9 Circles Step 10 Draw shapes accurately Step 11 Nets of 3-D shapes
 Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons 		
 Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Draw 2-D shapes using given 		
 Recognise, describe a 3-D shapes, including 	nd build simple making nets	
Skill Quests		Skills
Sum1 Angles	Measure & classi Calculate angles Vertically opposi Angles in a trian Angles in quadri Angles in polygo	fy angles te angles gle laterals ns
Sum1 Shapes	Circles Draw shapes accurately Nets of 3-D shapes	
Course Topic	Activities Title	
Summer: Geometry (shape)	Measuring Angle Angles of Revolu Vertically Oppos Angle Measures Interior Angles	es ition: Unknown Values ite Angles: Unknown Values in a Triangle
	Nets	

Geometry: Position & direction			
Curriculum Links		Small Steps	
Describe positions on the full		Step 1 The first quadrant	
coordinate grid (all four quadrants)		Step 2 Read and plot points in four quadrants	
		Step 3 Solve problems with coordinates	
 Draw and translate simple shapes on 		Step 4 Translations	
the coordinate plane, and reflect them		Step 5 Reflections	
in the axes			
Skill Quests		Skills	
Sum2 Position & direction	osition & direction The first quadrant Read & plot points in four quadrants Solve problems with coordinates		
	Translations		
	Reflections		
Course Topic		Activities Title	
Summer: Geometry	Coordinate Graphs: 1st Quadrant		
(position and direction)	on) Coordinate Graphs		
	Transformations		
	Transformations	Transformations: Coordinate Plane	
	Rotations: Coord	linate Plane	
	Horizontal and Vertical Change		

Problem solving		
Course Topic	Activities Title	
Problem solving	Money Problems: Four Operations with Pounds	
	Divisibility Tests (2, 5, 10)	
	More Fraction Problems	
	Partition Puzzles 2	
	Magic Symbols 2	
	Perimeter Detectives 2	



For more information about Mathletics, contact our friendly team.

www.mathletics.com/contact

