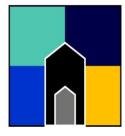
An Daras

Multi Academy Trust



An Daras Multi Academy Trust Windmill Hill Academy, Launceston

Integrated Curriculum Scheme of Work updated November	
2017	
Domain of Learning:	Mathematics
National Curriculum Subjects:	Mathematics
Domain Leader:	Written by Miss Osborne
Agreed and Approved:	
Leader In Year Review Dates:	
Related Documents and Guidance:	National Curriculum 14
	Year Group Non-Negotiable 14
	Mathematics Policy 15
	KS1 Mathematics Calculation Policy
	LKS1 Mathematics Calculation Policy
	HKS2Mathematics Calculation Policy
	Mathematics Curriculum Statement 18

Windmill Hill Academy English Scheme of Work – 2015

Curriculum Statement





Mathematics at Windmill Hill Academy 2018

At Windmill Hill Academy, children receive a rich and progressive mathematics curriculum with an emphasis on teaching and learning through a 'mastery' approach. We believe that Mathematics teaches us how to make sense of the world around us through developing a child's ability to calculate, to reason and to solve problems. In our school we want to help children to understand and appreciate the pattern in both number and space in their everyday lives in and out of school. We encourage the children to develop these key and fundamental skills through their growing knowledge and understanding of the world.

The National Curriculum for primary mathematics has three aims that are at the heart of how we interpret the content of the curriculum.

• Conceptual understanding:

In developing children's skills through enhancing their factual, conceptual and procedural knowledge, we allow them to deepen their mathematical understanding and be able to apply what they know to help them to solve problems.

• Mathematical reasoning:

The progression and development of mental calculations and efficiency in strategies will provide children with the skills which will allow them to communicate and present their findings effectively using appropriate mathematical language.

• Problem solving:

At Windmill Hill Academy, Mathematics is integral to all aspects of life and it is with this in mind that we ensure that children develop self-confidence in their ability to approach a range of mathematical problems.

By providing opportunities to apply their mathematical skills in different contexts and across a range of subject areas, children will be able to work systematically to organise information, find patterns and ultimately solutions through independent and collaborative learning.

Teaching of Mat

Mathematics follows the National Curriculum and reflects changes introduced in 2014 (for 2014-2015 Years 2 and 6 will largely continue to follow the previous curriculum as outlined by government policy and move towards the new curriculum in the summer

term) for Key Stages 1 and 2 and the Curriculum for EYFS.
 Assessment In the EYFS, children's achievements are on-going and are assessed against the Early Learning Goals.
• Levels were previously being used to assess children in KS1 and KS2. However, the school is now working towards making judgements about the children's numeracy in relation to age related expectations as set out in the new curriculum.
• Assessment for learning is well established throughout the school and the use of questioning, observation and marking will continue to be key parts of formative assessment. KS2 pupils will also complete termly formative assessment papers.
• Statutory assessments take place at the end of Year 2 and Year 6.
Monitoring Mathematics is led by Miss Osborne. She will update the curriculum governors on priorities and progress in Mathematics.

Year Group	Aut 1	Aut 2	Spr 1	Spr 2	Sum 1	Sum 2
Year 1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Academy Aims Link	ADMAT: *Accelerating and sustaining children's progress towards higher achievement. *Ensuring that achievement gaps for disadvantaged children are addressed. *Creating an enjoyable and creative curriculum that meets the learning needs for the children. Providing for children a safe, stimulating, caring but challenging learning environment. WHA :Create challenge, ensuring children see failure as not a negative but an opportunity to grow and learn.	ADUAT: *Accelerating and sustaining children's progress towards higher achievement. *Ensuring that achievement gaps for disadvantaged children are addressed. *Creating an enjoyable and creative curriculum that meets the learning needs for the children. Providing for children a safe, stimulating, caring but challenging learning environment. WHA :Create challenge, ensuring children see failure as not a negative but an opportunity to grow and learn.	ADMAT: *Accelerating and sustaining children's progress towards higher achievement. *Ensuring that achievement gaps for disadvantaged children are addressed. *Creating an enjoyable and creative curriculum that meets the learning needs for the children. Providing for children a safe, stimulating, caring but challenging learning environment. WHA :Create challenge, ensuring children see failure as not a negative but an opportunity to grow and learn.	ADMAT: *Accelerating and sustaining children's progress towards higher achievement. *Ensuring that achievement gaps for disadvantaged children are addressed. *Creating an enjoyable and creative curriculum that meets the learning needs for the children. Providing for children a safe, stimulating, caring but challenging learning environment. WHA :Create challenge, ensuring children see failure as not a negative but an opportunity to grow and learn.	ADMAT: *Accelerating and sustaining children's progress towards higher achievement. *Ensuring that achievement gaps for disadvantaged children are addressed. *Creating an enjoyable and creative curriculum that meets the learning needs for the children. Providing for children a safe, stimulating, caring but challenging learning environment. WHA :Create challenge, ensuring children see failure as not a negative but an opportunity to grow and learn.	ADMAT: *Accelerating and sustaining children's progress towards higher achievement. *Ensuring that achievement gaps for disadvantaged children are addressed. *Creating an enjoyable and creative curriculum that meets the learning needs for the children. Providing for children a safe, stimulating, caring but challenging learning environment. WHA :Create challenge, ensuring children see failure as not a negative but an opportunity to grow and learn.

	Year 1	Feaching See	quence and	suggested s	mall step gu	idance
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Wk1 Wk2	(4wks) Number and Place value (within 10) *Sort objects *Count objects	-cont Number - Addition and Subtraction (within 10) *Subtraction: Finding a part, breaking apart	(4wks) Number – Addition and Subtraction (within 20)	-cont Number and Place Value (within 50) (Multiples of 2,5 and 10 to be included) (2wks)	(3wks) Number: Multiplication and Division (Reinforce multiples of 2, 5 and 10 to be included)	(2wks) Number: Place Value (within 100)
	*Represent objects *Count, read and writing backwards from any number 0 to 10 *Count one more	*Fact families – The 8 facts (8 number sentences) – link between addition and subtraction – equals sign at start at end of cslculation		Measurement: Length and Height	included)	
	*Count one less *One to one correspondence to start to compare groups	*Subtraction: Counting back *Subtraction: Finding the difference				
	*Compare groups using language such as equal, more/greater, less/fewer *Introduce =,>,<	*Comparing addition and subtraction statements a + b > c *Comapare addition				
	symbols	and subtraction statements a+b> c+d				

Wk3	(1wk) Geometry and Shape			(1wk) Measurement: Money
	*Recognise and name 3D shapes			
	*Sort 3D shapes			
	*Recognise and name 2D shapes]			
	*Sort 2D shapes			
	*Patterns with 3D and 2D shapes			
Wk4	(2wks) Number and Place Value (within 20)	(2wks) Measurement: Weight and	(2wks) Number: Fractions	(2wks) Measurement: Time

Wk6 *Number bonds to 10 *Compare number bonds *Order numbers *Addition: Adding together (1wk) Consolidation *Addition: Adding more *Addition: Adding more *Addition: Adding more *Addition: Adding more *Subtraction: Taking away, how many left? Introducing the subtraction symbol National Curriculum Pages 6-10 Year 1 National Curriculum Pages 6-10	Wk5	(4wks) Number – Addition and Subtraction (within 10) Small steps *Part whole mode I *Addition symbol *Fact families – Addition facts *Find number bonds for numbers within 10 *Systematic methods for number bonds within 10	*Count forwards and backwards and write numbers to 20 in numerals and words *Numbers from 11 to 20 *Tens and ones *Count one more and one less *Compare groups of objects *Compare numbers *Order groups of objects	(3wks) Number and Place Value (within 50) (Multiples of 2,5 and 10 to be included)	Volume		
	Wk6	*Compare number bonds *Addition: Adding together *Addition: Adding more *Finding a part *Subtraction: Taking away, how many left? Introducing the	(1wk)		-	Geometry: Position and	

- count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
- count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
- given a number, identify one more and one less
- identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least
- read and write numbers from 1 to 20 in numerals and words.

Number: addition and subtraction

Pupils should be taught to:

- read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs
- represent and use number bonds and related subtraction facts within 20
- add and subtract one-digit and two-digit numbers to 20, including zero
- solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = -9.

Number: multiplication and division

Pupils should be taught to:

• solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.

Number: Fractions

Pupils should be taught to:

- recognise, find and name a half as one of two equal parts of an object, shape or quantity
- recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.

Measurement:

compare, describe and solve practical problems for:

- lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]
- mass/weight [for example, heavy/light, heavier than, lighter than]
- capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]
- time [for example, quicker, slower, earlier, later]

measure and begin to record the following:

- lengths and heights
- mass/weight
- capacity and volume
- time (hours, minutes, seconds)

+recognise and know the value of different denominations of coins and notes

+sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]

+recognise and use language relating to dates, including days of the week, weeks, months and years

+tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.

Geometry: Properties of shape

Pupils should be taught to:

- recognise and name common 2-D and 3-D shapes, including:
- 2-D shapes [for example, rectangles (including squares), circles and triangles]
- 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].

Geometry: Position and direction

Pupils should be taught to:

• describe position, direction and movement, including whole, half, quarter and three-quarter turns.

Cross curricular links	Aut 1	Aut2	Spr 1	Spring 2	Summer 1	Summer 2
	English: spelling key	English: spelling key	English: spelling key	English: spelling key	English: spelling key	English: spelling key
	term correctly	term correctly	term correctly	term correctly	term correctly	term correctly
	*Promoting the use of	*Promoting the use				
	mathematical language	of mathematical				
	during lessons	language during				
	*Developing literacy	lessons	lessons	lessons	lessons	lessons
	through discussions	*Developing literacy				
		through discussions				
	Computing – at given					
	opportunities:	Computing – at given				
	*problem solving tasks	opportunities:	opportunities:	opportunities:	opportunities:	opportunities:
	*practising of number	*problem solving				
	skills	tasks	tasks	tasks	tasks	tasks
	*exploring patterns	*practising of				
	and relationships	number skills				
	E-safety.	*exploring patterns				
	Using mathematical	and relationships E-	and relationships	and relationships	and relationships	and relationships
	language of forwards,	safety	E-safety	E-safety	E-safety	E-safety
	backwards, Left & right	Science - At given				
		opportunities to				
		apply maths for				
		counting and				
		measuring.	measuring.	measuring.	measuring.	measuring.
		-	-	_	_	_

Assessment Pathways	ASFL embedded into everyday classroom practice.
	Pupils are provided with opportunities to self-mark and review and responding to feedback / previous learning.
	Elicitation tasks or elicitation from assessment analysis informs unit and lesson planning.
	Moderation is to take place: internally and externally on a termly basis
	• AWL grids to be kept for a minimum of 6 pupils to inform assessment and moderation.
	Half termly head start carried out half termly
	PUMA assessment carried out termly
	Subject lead carries out whole school analysis of formal assessments to help inform planning.
	 Class teachers track GDS, vulnerable pupils and pupils at risk of not achieving Exp and use to inform interventions(see class provision maps)
	Half termly data drop on itrack
	Statutory assessment at the end of Y2 and Y6

Year 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Academy Aims Link	ADMAT:	ADMAT:	ADMAT:	ADMAT:	ADMAT:	ADMAT:
	*Accelerating and	*Accelerating and	*Accelerating and	*Accelerating and	*Accelerating and	*Accelerating and
	sustaining children's	sustaining children's	sustaining children's	sustaining children's	sustaining children's	sustaining children's
	progress towards	progress towards	progress towards	progress towards	progress towards	progress towards
	higher achievement.	higher achievement.	higher achievement.	higher achievement.	higher achievement.	higher achievement.
	*Ensuring that	*Ensuring that	*Ensuring that	*Ensuring that	*Ensuring that	*Ensuring that
	achievement gaps for	achievement gaps for	achievement gaps for	achievement gaps for	achievement gaps for	achievement gaps for
	disadvantaged children	disadvantaged	disadvantaged	disadvantaged	disadvantaged	disadvantaged
	are addressed.	children are				
	*Creating an enjoyable	addressed.	addressed.	addressed.	addressed.	addressed.
	and creative	*Creating an				
	curriculum that meets	enjoyable and				
	the learning needs for	creative curriculum				
	the children.	that meets the				
	Providing for children a	learning needs for the	learning needs for the	learning needs for	learning needs for the	learning needs for
	safe, stimulating,	children.	children.	the children.	children.	the children.
	caring but challenging	Providing for children				
	learning environment.	a safe, stimulating,				
	WHA :Create	caring but challenging	caring but challenging	caring but	caring but challenging	caring but
	challenge, ensuring	learning	learning	challenging learning	learning	challenging learning
	children see failure as	environment.	environment.	environment.	environment.	environment.
	not a negative but an	WHA :Create				
	opportunity to grow	challenge, ensuring				
	and learn.	children see failure as				
		not a negative but an				
		opportunity to grow				
		and learn.				

				00	<u>mall step gu</u>	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Wk1	(3wks) Number and Place value	-cont Number – Addition and Subtraction	-cont Number: Multiplication and Division	-cont Geometry: Properties of Shape)	(3wks) Position and Direction	-cont Measurement: Time
Wk2	*Count objects to 100 and read and write numbers in numerals and words *Represent numbers to 100 *Tens and ones in a part whole model *Tens and ones using addition *Use a place value chart *Compare numbers *Order objects and numbers *Count in 2s,5s and 10s *Count in 3s	*Add two 2-digit numbers – not crossing ten – add ones and add tens *Add two 2-digit numbers – crossing ten – add ones and add tens *Subtract a 2-digit number from a 2- digit number – not crossing ten *Subtract a 2-digit number from a 2- digit number – not crossing ten *Subtract ones and tens	 *Recognise equal groups *Make equal groups *Add equal groups *Multiplication sentences using the × symbol *Multiplication sentences from pictures *Use arrays *2 times-table *5 times-table *10 times-table 	(3wks) Number: Fractions		(3wks) Measurement: Mass, Capacity and Temperature

Wk3		(2wks)	(2wks)			
		Measurement:	Statistics			
		Money				
		*Count money –				
		pence				
Wk4	(5wks)	*Count money – pounds (notes and			(2wks)	
	Number –	coins)			Problem	
	Addition and	comby			solving and	
	Subtraction	*Count money –			efficient	
	Subtraction	notes and coins			methods	
	*Fact families –	*Coloct mon or			methous	
	Addition and	*Select money				
	subtraction bonds to	*Make the same				
	20	amount				
	*Check calculations					
	Check calculations	*Compare money				
	*Compare number	*Find the total				
	sentences	This the total				
	*Deleted feets	*Find the difference				
	*Related facts					
	*Bonds to 100 (tens)	*Find change				
	(Add and subtract 1s	*Two-step problems				
Wk5		(4wks)	(3wks)	(1wk)		(2wks)
-	*10 more and 10 less	Number:	Geometry:	Measurement:		Investigations
	*Add and subtract	Multiplication	Properties of	length and		investigations
	10s	and Division	Shape	height		
			Shape	neight		

Wk6	*Add a 2-digit and 1- digit number – crossing ten			(1wk) Consolidation	(3wks) Measurement:	
	*Subtract a 1-digit				Time	
	number from a 2-digit					
	number – crossing ten					
Year 2		National C	urriculum Page	es 11 to Statuto	bry Requiremen	ts
Number: Number	and Place Value					
Pupils should be taug	·					
1	s of 2, 3, and 5 from 0,	•		l backward		
-	e place value of each di					
• •	esent and estimate num	-	-	ding the number line	2	
-	order numbers from 0	-	-			
	e numbers to at least 10		n words			
<u> </u>	ie and number facts to	solve problems.				
Number: addition a						
Pupils should be taug	-					
-	h addition and subtra					
	te objects and pictorial			g numbers, quantities	s and measures	
	r increasing knowledge					
	ition and subtraction	• /		-		
	umbers using concre	te objects, pictorial	representations, and	d mentally, including	ng:	
	umber and ones					
0	umber and tens					
• two two-digi						
	one-digit numbers	h. J	(4 - 4 •	J	-	41
	n of two numbers can					
* recognise and use number problems.	the inverse relationsh	ip between additio	n and subtraction af	iu use this to check	calculations and sol	ive missing
.	tion and division					
Number: multiplica						

- recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
- calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs
- show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
- solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.

Number: Fractions

Pupils should be taught to:

- recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity
- write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2.

Measurement:

Pupils should be taught to:

- choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
- compare and order lengths, mass, volume/capacity and record the results using >, < and =
- recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value
- find different combinations of coins that equal the same amounts of money
- solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
- compare and sequence intervals of time
- tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times
- know the number of minutes in an hour and the number of hours in a day

Geometry: Properties of shape

Pupils should be taught to:

- identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line
- identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
- identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]
- compare and sort common 2-D and 3-D shapes and everyday objects.

Geometry: Position and direction

Pupils should be taught to:

- order and arrange combinations of mathematical objects in patterns and sequences
- use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise).

Statistics

- interpret and construct simple pictograms, tally charts, block diagrams and simple tables
- ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity
- ask and answer questions about totalling and comparing categorical data.

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	English: spelling key	English: spelling key	English: spelling key	English: spelling key	English: spelling key	English: spelling key
	term correctly	term correctly	term correctly	term correctly	term correctly	term correctly
	*Promoting the use of	*Promoting the use	*Promoting the use	*Promoting the use	*Promoting the use	*Promoting the use
	mathematical language	of mathematical	of mathematical	of mathematical	of mathematical	of mathematical
	during lessons	language during	language during	language during	language during	language during
	*Developing literacy	lessons	lessons	lessons	lessons	lessons
	through discussions	*Developing literacy	*Developing literacy	*Developing literacy	*Developing literacy	*Developing literacy
		through discussions	through discussions	through discussions	through discussions	through discussions
	Computing: geometry					
	and position for		Science: plants	Computing: data	Computing: living	Computing: living
	creating algorithms		(measurement).	logging in relation to	things (statistics)	things (statistics)
				plants (statistics)		
	Role play (Trains):				Geography: compass	Geography: compass
	money and time.			Science: plants	points.	points.
				(measurement).		
	DT: measurement				PE: athletics	PE: athletics
	(making transport			DT: cooking	(measurement).	(measurement).
	using mechanisms).			(measurement –		
				mass).		

Assess	sment Pathways	ASFL embedded into everyday classroom practice.
		• Pupils are provided with opportunities to self-mark and review and responding to feedback / previous learning.
		Elicitation tasks or elicitation from assessment analysis informs unit and lesson planning.
		Moderation is to take place: internally and externally on a termly basis
		• AWL grids to be kept for a minimum of 6 pupils to inform assessment and moderation.
		Half termly head start carried out half termly
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*Cr crea me the Pro stin cha env WH ens as r	Creating an enjoyable and eative curriculum that eets the learning needs for e children. roviding for children a safe, imulating, caring but nallenging learning nvironment.	addressed. *Creating an enjoyable and creative curriculum that meets the learning needs for the children. Providing for children a safe, stimulating, caring	addressed. *Creating an enjoyable and creative curriculum that meets the learning needs for the children. Providing for children a	addressed. *Creating an enjoyable and creative curriculum that meets the learning needs for the children.	addressed. *Creating an enjoyable and creative curriculum that meets the learning needs for the children.	addressed. *Creating an enjoyable an creative curriculum that meets the learning needs
crea me the Pro stin cha env WH ens as r	eative curriculum that eets the learning needs for e children. roviding for children a safe, imulating, caring but hallenging learning hvironment.	*Creating an enjoyable and creative curriculum that meets the learning needs for the children. Providing for children a safe, stimulating, caring	*Creating an enjoyable and creative curriculum that meets the learning needs for the children. Providing for children a	*Creating an enjoyable and creative curriculum that meets the learning needs for the children.	*Creating an enjoyable and creative curriculum that meets the learning needs for the children.	*Creating an enjoyable an creative curriculum that meets the learning needs
the Pro stin cha env WH ens as r	e children. roviding for children a safe, imulating, caring but hallenging learning hvironment.	meets the learning needs for the children. Providing for children a safe, stimulating, caring	meets the learning needs for the children. Providing for children a	meets the learning needs for the children.	meets the learning needs for the children.	meets the learning needs
Pro stin cha env WH ens as r	roviding for children a safe, imulating, caring but nallenging learning nvironment.	for the children. Providing for children a safe, stimulating, caring	for the children. Providing for children a	for the children.	for the children.	0
stin cha env WH ens as r	imulating, caring but nallenging learning nvironment.	Providing for children a safe, stimulating, caring	Providing for children a			for the children
cha env WH ens as r	nallenging learning nvironment.	safe, stimulating, caring		Providing for children a	Descriptions for a 1911	for the children.
env WH ens as r	nvironment.		safe, stimulating, caring	0	Providing for children a	Providing for children a
WH ens as r		but challenging learning		safe, stimulating, caring	safe, stimulating, caring	safe, stimulating, caring
ens as r	<pre>/HA :Create challenge,</pre>		but challenging learning	but challenging learning	but challenging learning	but challenging learning
as r		environment.	environment.	environment.	environment.	environment.
	nsuring children see failure	WHA :Create challenge, ensuring children see	WHA :Create challenge, ensuring children see	WHA :Create challenge, ensuring children see	WHA :Create challenge, ensuring children see	WHA :Create challenge, ensuring children see
opp	not a negative but an	failure as not a negative	failure as not a negative	failure as not a negative	failure as not a negative	failure as not a negative
log	oportunity to grow and arn.	but an opportunity to grow	but an opportunity to grow	but an opportunity to grow	but an opportunity to grow	but an opportunity to gro
lear	ai ii.	and learn.	and learn.	and learn.	and learn.	and learn.

			quence and			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Wk1	(3wks) Number and Place value	-cont Number – Addition and Subtraction	(3wk) Number:	(3wks) Measurement:	(3wks) Number: Fractions	(2wks) Geometry-
	*Hundreds *Represent numbers	*Add and subtract a 2-digit and 3-digit	Multiplication and Division	Length and Perimeter	Fractions	Properties of Shape
Wk2	to 1,000	number – not crossing 10 or 100				
	*100s, 10s, and 1s (1 understanding)	*Add a 2-digit and 3- digit number –				
	*100s, 10s, and 1s (2 representing)	crossing 10 or 100				
	*Number line to 1,000	*Subtract a 2-digit number from a 3- digit number – cross				
	*Find 1,10,1000 more or less than a given	the 10 or 100				
	number. *Compare numbers to	*Add two 3-digit numbers – not crossing 10 or 100				
	1,000	*Add two 3-digit				
	*Order numbers *Count in 50s	numbers – crossing 10 or 100				
		*Subtract a 3-digit number from a 3- digit number – no				
		exchange				
		*Subtract a 3-digit number from a 3- digit number – exchange				
		*Estimate answers to calculations *Check				

Wk3		(4wks) Number:				(3wks) Measurement:
Wk4	(5wks) Number – Addition and Subtraction *Add and subtract multiples of 100 *Add and subtract 3- digit numbers and	Multiplication and Division *Multiplication – equal groups *Multiplying by 3 *Dividing by 3	(1wk) Measurement: Money	Number: Fractions	(3wks) Measurement: Time	Mass and Capacity
Wk5	ones – not crossing 10 *Add 3-digit and 1- digit numbers – crossing 10	*The 3 times-table *Multiplying by 4	(2wks) Statistics			
	*Subtract a 1-digit number from a 3-digit number – crossing 10	*Dividing by 4 *The 4 times-table *Multiplying by 8				
Wk 6	*Add and subtract 3- digit numbers and tens – not crossing 100	*Dividing by 8 *The 8 times-table				
VVK O	*Add a 3-digit number and tens – crossing 100	Consolidation		Consolidation		Consolidation
	*Subtract tens from a 3-digit number – crossing 100					
	*Add and subtract 100s *Spot the pattern – making it explicit					

Year 3

National Curriculum Pages 18 to 23 Statutory Requirements

Number: Number and Place Value

Pupils should be taught to:

- count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number
- recognise the place value of each digit in a three-digit number (hundreds, tens, ones)
- compare and order numbers up to 1000
- identify, represent and estimate numbers using different representations
- read and write numbers up to 1000 in numerals and in words
- solve number problems and practical problems involving these ideas.

Number: addition and subtraction

Pupils should be taught to:

- add and subtract numbers mentally, including:
- a three-digit number and ones
- a three-digit number and tens
- a three-digit number and hundreds
- add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
- estimate the answer to a calculation and use inverse operations to check answers
- solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

Number: multiplication and division

Pupils should be taught to:

- recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
- write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods

solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.

Number: Fractions

- count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10
- recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators
- recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
- recognise and show, using diagrams, equivalent fractions with small denominators
- add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]
- compare and order unit fractions, and fractions with the same denominators
- solve problems that involve all of the above.

Measurement:

Pupils should be taught to:

- measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
- measure the perimeter of simple 2-D shapes
- add and subtract amounts of money to give change, using both \pounds and p in practical contexts
- tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
- estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight
- know the number of seconds in a minute and the number of days in each month, year and leap year
- compare durations of events [for example to calculate the time taken by particular events or tasks].

Geometry: Properties of shape

Pupils should be taught to:

- draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them
- recognise angles as a property of shape or a description of a turn
- identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle
- identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

Statistics

Pupils should be taught to:

- interpret and present data using bar charts, pictograms and tables
- solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.

Pupils	s should be	Aut1	Aut2	Spring 1	Spring 2	Summer 1	Summer2
taugh		English: spelling key term	English: spelling key	English: spelling key	English: spelling key	English: spelling key	English: spelling key
•	order and	correctly	term correctly	term correctly	term correctly	term correctly	term correctly
•		*Promoting the use of	*Promoting the use of	*Promoting the use of	*Promoting the use of	*Promoting the use of	*Promoting the use of
	arrange	mathematical language	mathematical language	mathematical language	mathematical language	mathematical language	mathematical language
	combination	during lessons	during lessons	during lessons	during lessons	during lessons	during lessons
	s of	*Developing literacy through discussions	*Developing literacy through discussions	*Developing literacy through discussions	*Developing literacy through discussions	*Developing literacy through discussions	*Developing literacy through discussions
	mathematica		through discussions	the ough discussions	thiough discussions	thiough discussions	through discussions
	l objects in	Computing – at given	Computing – at given	Computing – at given	Computing – at given	Computing – at given	Computing – at given
	•	opportunities: *problem	opportunities:	opportunities:	opportunities:	opportunities:	opportunities:
	patterns and	solving tasks	*problem solving tasks	*problem solving tasks	*problem solving tasks	*problem solving tasks	*problem solving tasks
	sequences	*practising of number	*practising of number	*practising of number	*practising of number	*practising of number	*practising of number
٠	use	skills	skills	skills	skills	skills	skills
	mathematica	*exploring patterns and	*exploring patterns and	*exploring patterns and	*exploring patterns and	*exploring patterns and	*exploring patterns and
	l vocabulary	relationships	relationships	relationships	relationships	relationships	relationships
	to describe	E-safety	E-safety	E-safety	E-safety	E-safety	E-safety
	position,	*Science - Gathering data	D.T- weighing	PE - in dance	PE – in outdoor	History /art researching	Geography – collecting
	direction	and presenting in a bar	ingredients, using	Sequencing, including	adventurous- in	and creating Roman	information on how ou
	and	graph. Opportunities to measure	ratios to calculate quantities of ingredients	pace and speed: first	outdoor adventure,	mosaics	location has changed over time. Recording
	movement,	length during forces	quantities of ingredients	start your movement slowly, then make your	estimating distances apart and where it is	PE - during striking and	the data in order to
	including	experiment.	*PE - during swimming:	movement faster, next	safe to jump, move	fielding devise and	analyse.
	movement	*PE: during games, devise	record times taken to	make your movement	without interfering with	explain scoring systems.	undryse.
		and explain scoring	complete width/length	very fast and finally	each other		PE- Work out
	in a straight	systems.	of pool. How much can	slow your movement			comparisons against
	line and	Fractions:	you improve?	down, repeat the	DT -Accurate measuring		previous best and
	distinguishi	halves/quarters/thirds of	Work out comparisons	sequence three times	and drawing lines in cm		recognise improvement
	ng between	a pitch/ court/game	against previous best		and mm.		over time: can
	rotation as a		and recognise				individual children
	turn and in		improvement over time:				recognise improvement
	terms of		can individual children				over time? Can they
			recognise improvement				identify which is the
	right angles		over time? During gymnastics:				furthest throw, which is the fastest run over 50
	for quarter,		Investigating patterns:				metres?
	half and		when jumping, jump				Work out combined
	three-		and curl, jump and				distances/times for
	quarter turns		stretch, etc				group: which group ha
	-		Developing sequences:				thrown the furthest?
	(clockwise		1 st do a jump, 2 nd do a				Which group the
	and		roll and 3 rd do a twist,				quickest combined tota
	anticlockwis		repeat the pattern five				for a run over a given
	e).		times.				distance?
	-						Work out speeds using
							simple formulae

Curriculum SoW 2014

Statistics	ASFL embedded into everyday classroom practice.
	• Pupils are provided with opportunities to self-mark and review and responding to feedback / previous learning.
	• Elicitation tasks or elicitation from assessment analysis informs unit and lesson planning.
	Moderation is to take place: internally and externally on a termly basis
	• AWL grids to be kept for a minimum of 6 pupils to inform assessment and moderation.
	Half termly head start carried out half termly
	PUMA assessment carried out termly
	• Subject lead carries out whole school analysis of formal assessments to help inform planning.
	 Class teachers track GDS, vulnerable pupils and pupils at risk of not achieving Exp and use to inform interventions(see class provision maps)
	Half termly data drop on itrack
	• Statutory assessment at the end of Y2 and Y6
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Academy Aims Link	ADMAT:	ADMAT:	ADMAT:	ADMAT:	ADMAT:	ADMAT:	
	*Accelerating and sustaining	*Accelerating and					
1	children's progress towards	sustaining children's					
1	higher achievement.	progress towards higher					
	*Ensuring that achievement	achievement.	achievement.	achievement.	achievement.	achievement.	
	gaps for disadvantaged	*Ensuring that					
	children are addressed.	achievement gaps for					
	*Creating an enjoyable and	disadvantaged children are					
	creative curriculum that	addressed.	addressed.	addressed.	addressed.	addressed.	
	meets the learning needs for	*Creating an enjoyable and					
	the children.	creative curriculum that					
	Providing for children a safe, stimulating, caring but	meets the learning needs for the children.					
	challenging learning	Providing for children a					
	environment.	safe, stimulating, caring					
	WHA :Create challenge,	but challenging learning					
	ensuring children see failure	environment.	environment.	environment.	environment.	environment.	
	as not a negative but an	WHA :Create challenge,					
1	opportunity to grow and	ensuring children see					
	learn.	failure as not a negative					
		but an opportunity to grow					
		and learn.					
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		Year 4 Te	eaching Sequ	lence and si	mall step	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Wk1	(4wks) Number and Place value *Roman numerals	-cont Number – Addition and	(3wk) Number: Multiplication and Division	-cont Fractions	(2wks) Decimals	-cont Statistics
Wk2	to 100 *Round to the nearest 10	Subtraction Measurement: Length and Perimeter				Geometry: Properties of Shape
	*Round to the nearest 100	*Kilometres				
	*Count in 1,000s *1,000s, 100s, 10s, and 1s	*Perimeter on a grid *Perimeter of a rectangle				
	*1,000 more or less	*Perimeter of rectilinear shapes				
Wk3	*Compare numbers *Order numbers	(3wks) Number:		(3wks) Decimals	(2wks) Measurement: Money	
Wk4	*Round to the nearest 1,000	Multiplication and Division *Multiply by 10	(1wk) Measurement: Area			
	*Count in 25s	*Multiply by 100				
	*Negative numbers	*Divide by 10				

Wk5	(5wks) Number –	*Divide by 100	(4wks)		(1wk)	Geometry:
	Addition and	*Multiply by 1 and 0	Fractions		Measurement:	Position and
	Subtraction	*Divide by 1			Time	Direction
	*Add and subtract 1s, 10s, 100s and 1000s	*Multiply and divide by 6				
	*Add two 4-digit numbers – no exchange	*6 times-table and division facts				
		*Multiply and divide by 9				
	*Add two 4-digit numbers – one exchange	*9 times-table and division facts				
	*Add two 4-digit numbers – more than one exchange	*Multiply and divide by 7				
	*Subtract two 4-digit numbers – no	*7 times-table and division facts				
Wk 6	exchange	Consolidation		Consolidation	(2wks)	Consolidation
	*Subtract two 4-digit numbers – one exchange				Statistics	
	*Subtract two 4-digit numbers – more than one exchange					
	*Efficient subtraction					
	*Estimate answers					
	*Checking strategies					
Year 4		National C	urriculum Page	- 24 +- 20 6+-+		a a ta

- count in multiples of 6, 7, 9, 25 and 1000
- find 1000 more or less than a given number
- count backwards through zero to include negative numbers
- recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)
- order and compare numbers beyond 1000
- identify, represent and estimate numbers using different representations
- round any number to the nearest 10, 100 or 1000
- solve number and practical problems that involve all of the above and with increasingly large positive numbers
- read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.

Number: addition and subtraction

Pupils should be taught to:

- add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
- estimate and use inverse operations to check answers to a calculation
- solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

Number: multiplication and division

Pupils should be taught to:

- recall multiplication and division facts for multiplication tables up to 12×12
- use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
- recognise and use factor pairs and commutativity in mental calculations
- multiply two-digit and three-digit numbers by a one-digit number using formal written layout
- solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

Number: Fractions

- recognise and show, using diagrams, families of common equivalent fractions
- count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.
- solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
- add and subtract fractions with the same denominator
- recognise and write decimal equivalents of any number of tenths or hundredths
- recognise and write decimal equivalents to 1/4, 1/2, 3/4
- find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths
- round decimals with one decimal place to the nearest whole number
- compare numbers with the same number of decimal places up to two decimal places
- solve simple measure and money problems involving fractions and decimals to two decimal places.

Measurement:

Pupils should be taught to:

- Convert between different units of measure [for example, kilometre to metre; hour to minute]
- measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
- find the area of rectilinear shapes by counting squares
- estimate, compare and calculate different measures, including money in pounds and pence
- read, write and convert time between analogue and digital 12- and 24-hour clocks
- solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

Geometry: Properties of shape

Pupils should be taught to:

- compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
- identify acute and obtuse angles and compare and order angles up to two right angles by size
- identify lines of symmetry in 2-D shapes presented in different orientations
- complete a simple symmetric figure with respect to a specific line of symmetry.

Geometry: Position and Direction

Pupils should be taught to:

- describe positions on a 2-D grid as coordinates in the first quadrant
- describe movements between positions as translations of a given unit to the left/right and up/down
- plot specified points and draw sides to complete a given polygon.

Statistics:

- interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
- solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

Cross curricular links	Aut1	Aut2	Spring 1	Spring 2	Summer 1	Summer2
	English: spelling key term	English: spelling key				
	correctly	term correctly	term correctly	term correctly	term correctly	term correctly
	*Promoting the use of	*Promoting the use of	*Promoting the use of	*Promoting the use of	*Promoting the use of	*Promoting the use of
	mathematical language	mathematical language	mathematical language	mathematical language	mathematical language	mathematical language
	during lessons	during lessons	during lessons	during lessons	during lessons	during lessons
	*Developing literacy	*Developing literacy	*Developing literacy	*Developing literacy	*Developing literacy	*Developing literacy
	through discussions	through discussions	through discussions	through discussions	through discussions	through discussions
	Computing – at given opportunities: *problem	Computing – at given opportunities:				
	solving tasks	*problem solving tasks	*problem solving tasks	*problem solving tasks	*problem solving tasks	*problem solving tasks
	*practising of number	*practising of number	*practising of number	*practising of number	*practising of number	*practising of number
	skills	skills	skills	skills	skills	skills
	*exploring patterns and	*exploring patterns and	*exploring patterns and	*exploring patterns and	*exploring patterns and	*exploring patterns and
	relationships	relationships	relationships	relationships	relationships	relationships
	E-safety	E-safety	E-safety	E-safety	E-safety	E-safety
	ICT – computing - using	DT- making accurate	Science – animal and	Science – measuring	History – using	PE – Athletics –
	Scratch and algorithms to	measurements	habitat decision trees,	heart rates	timelines, chronology	measuring and
	create a maths game	(length – mm/cm)	Carroll and Venn	DT – weighing /	Geography –	calculating length /
	(multiplication tables)	And exploring 2D/3D	diagrams	measuring mass and	comparing, ordering	distances, converting
	Science – measuring /	shapes and nets	Geography – analysing	reading scales (g/kg)	and rounding numbers	between units
	sound levels	Music / PE (Dance) –	and interpreting real life	when cooking, using	(including river lengths -	(1m 57cm = 1.57m =
	Sound levels	creating repeating	facts and figures linked	ratio and proportion to	km)	157cm) by multiplying
		patterns and sequences	to data on different	adapt recipes	PE (OAA) – problem	dividing by 10/100
		putterns and sequences	countries	udupt recipes	solving, direction and	& measuring and
			Music / ICT – creating		co-ordinates	ordering athletics times
					co-orunates	(minutes / seconds)
			repeating patterns			
						Science / Geog / ICT –
						collecting weather data
						and creating /
						interpreting graphs
						(temperature and
						rainfall (mm))

Assessment Pathways	ASFL embedded into everyday classroom practice.
	Pupils are provided with opportunities to self-mark and review and responding to feedback / previous learning.
	Elicitation tasks or elicitation from assessment analysis informs unit and lesson planning.
	Moderation is to take place: internally and externally on a termly basis
	• AWL grids to be kept for a minimum of 6 pupils to inform assessment and moderation.
	Half termly head start carried out half termly
	PUMA assessment carried out termly
	Subject lead carries out whole school analysis of formal assessments to help inform planning.
	 Class teachers track GDS, vulnerable pupils and pupils at risk of not achieving Exp and use to inform interventions(see class provision maps)
	Half termly data drop on itrack
	Statutory assessment at the end of Y2 and Y6

Year 5	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Academy Aims Link	ADMAT: *Accelerating and sustaining children's	ADMAT: *Accelerating and sustaining	ADMAT: *Accelerating and	ADMAT: *Accelerating and	ADMAT: *Accelerating and	ADMAT: *Accelerating and sustaining children's
	progress towards higher	children's progress towards higher achievement.	sustaining children's progress towards higher	sustaining children's progress towards higher	sustaining children's progress towards higher	progress towards higher
	achievement. *Ensuring that	*Ensuring that achievement gaps for disadvantaged	achievement. *Ensuring that	achievement. *Ensuring that	achievement. *Ensuring that	achievement. *Ensuring that
	achievement gaps for disadvantaged children	children are addressed. *Creating an enjoyable and	achievement gaps for disadvantaged children are			
	are addressed. *Creating an enjoyable	creative curriculum that meets the learning needs for the	addressed. *Creating an enjoyable and			
	and creative curriculum	children.	creative curriculum that	creative curriculum that	creative curriculum that	creative curriculum that
	that meets the learning needs for the children.	Providing for children a safe, stimulating, caring but	meets the learning needs for the children.			
	Providing for children a	challenging learning	Providing for children a			
	safe, stimulating, caring but challenging learning	environment. WHA :Create challenge,	safe, stimulating, caring but challenging learning	safe, stimulating, caring but challenging learning	safe, stimulating, caring but challenging learning	safe, stimulating, caring but challenging learning
	environment. WHA :Create challenge,	ensuring children see failure as not a negative but an	environment. WHA :Create challenge,	environment. WHA :Create challenge,	environment. WHA :Create challenge,	environment. WHA :Create challenge,
	ensuring children see	opportunity to grow and learn.	ensuring children see	ensuring children see	ensuring children see	ensuring children see
	failure as not a negative but an opportunity to		failure as not a negative but an opportunity to grow	failure as not a negative but an opportunity to grow	failure as not a negative but an opportunity to grow	failure as not a negative but an opportunity to grow
	grow and learn.		and learn.	and learn.	and learn.	and learn.

	Year 5	Teaching Se	*	66	small step g	uidance
			See Whi	te Rose		
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Wk1	(3wks) Number and	-cont	(3wk) Number:	-cont Fractions	(4wks) Number:	-cont Geometry:
	Place value	Statistics	Multiplication and Division		Decimals	Properties of Shape
	*Number to	*Read and interpret				
	10,000 *Roman	line graphs				
	numerals to 1,00 0	*Draw line graphs				
	*Round to the nearest 10, 100	*Use line graphs to solve problems				
	and 1,000 *Number to 100,000	*Read and interpret tables				
	*Compare and order numbers to	*Two way tables				
	100,000	*Timetables				(1
Wk2	*Round numbers within 100,000	(2wks) Number: Multiplication				(1wk) Geometry: Position and
	*Numbers to a million	Multiplication and Division				Direction

Wk3	*Counting in 10s, 100s, 1,000s, 10,000s and 100,000s *Compare and order numbers to a million *Round numbers to a million *Negative numbers	 *Multiples *Factors *Common factors *Common factors *Prime numbers *Square numbers *Cube numbers *Cube numbers *Inverse operations (Multiplication and Division) *Multiply by 10, 100 and 1,000 *Divide by 10, 100 and 1,000 *Multiply and divide by multiples of 10, 100 and 1,000 			(2wks) Measure: Converting Units	
Wk4	(2wks) Number – Addition and Subtraction	Perimeter and Area *Measure perimeter	(6wks) Number: Fractions	(2wks) Number: Decimals and Percentages		

Wk5		*Calculate perimeter *Find unknown lengths *Area of rectangles *Area of compound shapes *Estimate and approximate area			(3wks) Geometry: Properties of Shape	(1wk) Measure: Volume
Wk 6	(2wks) Statistics	Consolidation		Consolidation		Consolidation
Statistics The National Curriculum p134		** Solve comparison, sum and difference problems using information presented in a line graph	Solve comparison, sum and difference problems using information presented in a line graph *Complete, read and			Solve comparison, sum and difference problems using information presented in a line graph
Pupils will be taught to:		* Complete, read and interpret information in tables, including timetables	interpret information in tables, including timetables			

Cross curricular links	English: spelling key term	English: spelling key	English: spelling key	English: spelling key	English: spelling key	English: spelling key
	correctly	term correctly	term correctly	term correctly	term correctly	term correctly
	*Promoting the use of	*Promoting the use of	*Promoting the use of	*Promoting the use of	*Promoting the use of	*Promoting the use of
	mathematical language	mathematical language	mathematical language	mathematical language	mathematical language	mathematical language
	during lessons	during lessons	during lessons	during lessons	during lessons	during lessons
	*Developing literacy	*Developing literacy	*Developing literacy	*Developing literacy	*Developing literacy	*Developing literacy
	through discussions	through discussions	through discussions	through discussions	through discussions	through discussions
	Computing – at given	Computing – at given	Computing – at given	Computing – at given	Computing – at given	Computing – at given
	opportunities: *problem	opportunities:	opportunities:	opportunities:	opportunities:	opportunities:
	solving tasks	*problem solving tasks	*problem solving tasks	*problem solving tasks	*problem solving tasks	*problem solving tasks
	*practising of number	*practising of number	*practising of number	*practising of number	*practising of number	*practising of number
	skills	skills	skills	skills	skills	skills
	*exploring patterns and	*exploring patterns and	*exploring patterns and	*exploring patterns and	*exploring patterns and	*exploring patterns and
	relationships	relationships	relationships	relationships	relationships	relationships
	Computing – We are	Computing -	E-safety	E-safety	E-safety	
	game developers – using	cryptographers – using				Computing – we are
	angles and measure to	prime numbers to code	Art – Printing/ collage –	DT – materials – using	Topic – Local study –	architects – using units
	develop game		using tessellation,	perimeter and area to	using angles and	of measure to construct
	E-safety	E-safety	rotation and reflection	ensure correct amount	measure during map	model buildings
			to create patterns	of material needed	reading; using degrees	E-safety
	Science – Earth and	Science – Biomes –			of turn reading a	,
	Space – planets distance	interpreting line graphs	PE – gym/dance – using		compass	
	from Sun	of temperature	rotation of shape to			
			create movement			
		DT – Food – using				
		metric/ imperial				
		measures				

Assessme	ent Pathways	ASFL embedded into everyday classroom practice.	
		• Pupils are provided with opportunities to self-mark and review and responding to feedback / previous learning.	
		Elicitation tasks or elicitation from assessment analysis informs unit and lesson planning.	
		Moderation is to take place: internally and externally on a termly basis	
		• AWL grids to be kept for a minimum of 6 pupils to inform assessment and moderation.	
		Half termly head start carried out half termly	
		PUMA assessment carried out termly	
		Subject lead carries out whole school analysis of formal assessments to help inform planning.	
		• Class teachers track GDS, vulnerable pupils and pupils at risk of not achieving Exp and use to inform interventions(see class provision maps)	
		Half termly data drop on itrack	
		Statutory assessment at the end of Y2 and Y6	

Year 6 Autur	mn 1 Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Academy Aims Link ADMAT: *Accelerating a sustaining child progress toward achievement. *Ensuring that a gaps for disadva children are add *Creating an en creative curricu meets the learn for the children Providing for ch safe, stimulating challenging lear environment. WHA :Create ch ensuring childre failure as not a an opportunity learn.	Itern'schildren's progress towardsdren'schildren's progress towardshigherhigher achievement. *Ensuring that achievementachievementgaps for disadvantagedantagedchildren are addressed.dressed.*Creating an enjoyable and creative curriculum thatulum thatmeets the learning needs for the children.ning needsProviding for children a safe, stimulating, caring but challenging learning environment.WHA :Create challenge, en seeas not a negative but an opportunity to grow and	ADMAT:	ADMAT: *Accelerating and sustaining children's progress towards higher achievement. *Ensuring that achievement gaps for disadvantaged children are addressed. *Creating an enjoyable and creative curriculum that meets the learning needs for the children. Providing for children a safe, stimulating, caring but challenging learning environment. WHA :Create challenge, ensuring children see failure as not a negative but an opportunity to grow and learn.	ADMAT: *Accelerating and sustaining children's progress towards higher achievement. *Ensuring that achievement gaps for disadvantaged children are addressed. *Creating an enjoyable and creative curriculum that meets the learning needs for the children. Providing for children a safe, stimulating, caring but challenging learning environment. WHA :Create challenge, ensuring children see failure as not a negative but an opportunity to grow and learn.	ADMAT: *Accelerating and sustainin, children's progress towards higher achievement. *Ensuring that achievement gaps for disadvantaged children are addressed. *Creating an enjoyable and creative curriculum that meets the learning needs fo the children. Providing for children a safe stimulating, caring but challenging learning environment. WHA :Create challenge, ensuring children see failure as not a negative but an opportunity to grow and learn.

	Year	6 Teaching S	-	d suggested s	mall step gu	idance
			See W	nite Rose		
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Wk1	(2wks) Number and Place value	(4wks) Fractions *Simplify fractions	(2wks) Number: Decimals	(1wk) Measure: Converting Units	(2wks) Geometry: Properties of	-cont Statistics
Wk2	*Numbers to ten million *Compare and order any number * Round any numbers *Negative numbers	Fractions on a number line *Compare and order fractions by the denominator *Compare and order fractions by the numerator *Add and subtract fractions (1) answers	ctions on a nber line empare and order ctions by the nominator empare and order ctions by the nerator Id and subtract ctions (1) answers s than 1 – different		Shape	(4wks) Investigations
Wk3	(4wks) Number – Addition, Subtraction, Multiplication	denominators – findlowest common denominator *Add and subtract	(2wks) Number Percentages		(3wks) Problem Solving	
Wk4	Add and subtract whole numbers*Multiply up to a 4- digit by 1-digit number*Short division*Division using	fractions (2) addin fractions<1 – common denominators, applying to mixed numbers *Adding fractions *Subtracting fractions *Mixed addition and subtraction problems		(2wks) Number: Ratio		

l [factors	*Multiply fractions by			
			whole number			
		*Long division (1)	Ψ λ α μ.· 1 C .·· 1			
		3x2 no remainders	*Multiply fractions by fraction			
		*Long division (2)	ITACIOII			
		3x2 becoming more	*Divide a fraction by a			
		efficient	whole number (1)			
			divide by whole			
		*Long division (3)	numbers, where			
		remainders	numerator where numerator is directly			
		*Long division (4) 4-	divisible by the			
		digits with	divisor.			
		remainders				
			*Divide a fraction by a			
		*Common factors	whole number (2)			
		*Common multiplos	divide by whole			
		*Common multiples Primes	number, including mixed number			
		1 miles	fractions. Represent			
		*Squares and cubes	fraction and divide			
			visually.			
		*Order of operations				
		*Mental calculations	*Four rules with			
		and estimation	fractions			
			*Fraction of an			
		*Reasoning from	amount			
		known facts				
			*Fraction of an			
			amount - finding the			
	14/1.5		whole	Numbon		
	Wk5		(1wk)	Number:		
			Geometry: Position and	Algebra		
			Direction			
			*Coordinates in the			
			first quadrant			
			in st quantit			

	*Coordinates in four quadrants		
	*Translations		
	*Reflections		

Wk 6		Consolidation		Consolidation	(2wks) Statistics	Consolidation
Cross curricular links	English: spelling key term correctly *Promoting the use of mathematical language during lessons *Developing literacy through discussions Computing – at given opportunities: *problem solving tasks *practising of number skills *exploring patterns and relationships E-safety Computing – interactive maths games Science – electricity	English: spelling key term correctly *Promoting the use of mathematical language during lessons *Developing literacy through discussions Computing – at given opportunities: *problem solving tasks *practising of number skills *exploring patterns and relationships E-safety DT – Food – using metric/ imperial measures Computing – interactive maths games	English: spelling key term correctly *Promoting the use of mathematical language during lessons *Developing literacy through discussions Computing – at given opportunities: *problem solving tasks *practising of number skills *exploring patterns and relationships E-safety Computing – interactive maths games PE – rotation and reflection of shapes	English: spelling key term correctly *Promoting the use of mathematical language during lessons *Developing literacy through discussions Computing – at given opportunities: *problem solving tasks *practising of number skills *exploring patterns and relationships E-safety DT – Ancient Greek vases symmetry Computing – interactive maths games	English: spelling key term correctly *Promoting the use of mathematical language during lessons *Developing literacy through discussions Computing – at given opportunities: *problem solving tasks *practising of number skills *exploring patterns and relationships E-safety Computing – interactive maths games PSHE – money Art – print symmetrical patterns/reflection/rotati on/tesselation	English: spelling key term correctly *Promoting the use of mathematical language during lessons *Developing literacy through discussions Computing – at given opportunities: *problem solving tasks *practising of number skills *exploring patterns and relationships E-safety DT – London structures – measure Computing – interactive maths games PE – split time/ distance PSHE - money
Assessment Pathways	 Pupils are prov Elicitation task Moderation is AWL grids to b 	s or elicitation from assess to take place: internally an	self-mark and review and ment analysis informs unit nd externally on a termly b pupils to inform assessme	and lesson planning.	previous learning.	

	PUMA assessment carried out termly
	Subject lead carries out whole school analysis of formal assessments to help inform planning.
	• Class teachers track GDS, vulnerable pupils and pupils at risk of not achieving Exp and use to inform interventions(see class provision maps)
	Half termly data drop on itrack
	• Statutory assessment at the end of Y2 and Y6

Curriculum SoW 2014