Sowe Valley Primary School – Curriculum Overview Maths



Intent

The national curriculum for mathematics aims to ensure that all pupils:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of routine and nonroutine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions

At Sowe Valley primary school, we want all of our children to develop and nurture a love of learning Maths, regardless of their starting point or perceived ability. Using real life contexts, we want our children to make links and rich connections across mathematical concepts to develop their fluency, mathematical reasoning and competence in solving increasing range of challenging problems. We aim for the children to recognise their own creativity as mathematicians and be able to employ a range of skills using a CPA approach, taking risks and reflecting on their misconceptions during lessons. We want our children to recognise that Maths is essential to everyday life, in areas such as science, technology and engineering, and necessary for financial literacy and most forms of employment.

Immersion/

- Every child will be able to tell the time
- Every child will add the distances they run in golden mile
- Every child will participate in Mathletics, practical activities
- Every child will take part in outdoor Maths activities
- Every child the will record distance on school trips
- Every child will have the change to create, make and play board games
- Every child will have opportunity add and handle money for charity
- Every child will have the opportunity to plan, create and run a business enterprise
- Every child will have the option to join a Maths school club
- Every child will have opportunity to a plan and cost a class trip

Implementation/

	Reception/	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn/		Unit 1	Unit 1	Unit 1	Unit 1	Unit 1	Unit 1
		Number -	Number -	Number -	Number –	Number –	Number –
		Number & place	Number & place	Number & place	Number & place	Number & place	Number & place value
		value	value	value	value	value	
		Addition &	Addition &	Addition &	Addition &	Addition &	Addition & subtraction
		subtraction	subtraction/	subtraction	subtraction	subtraction/	Geometry -
		Geometry	Geometry -	Geometry -	Geometry -	Geometry -	Properties
		Properties	Properties	Properties of shape	Properties	Properties	of shape
		of shapes	of shapes	Unit 2	of shape	of shape	Unit 2

U _I	nit 2	Unit 2	Number -	Unit 2	Unit 2	Number -
l Nu	umber –	Number -	Multiplication &	Geometry-	Number -	Multiplication & division
l Ac	ddition &	Addition &	division including	Position & direction	Multiplication &	Fractions
	ıbtraction/	subtraction	Number & place	Number -	division	Geometry-
l Ac	ddition &	Addition &	value	Multiplication &	Fractions	Position & direction
su	ıbtraction/	subtraction	Measurement	division including	Geometry-	
M	leasurement	Measurement	(mass)	Number & place	Position & direction	
	ength & height)	(length & height)	Fractions	value '		
				Fractions		
	nit 3	Unit 3	Unit 3	Unit 3	<u>Unit 3</u>	<u>Unit 3</u>
Nu	umber -	Number -	Number -	Number -	Number -	Number -
	umber & place	Multiplication &	Addition &	Addition &	Addition &	Addition & subtraction
	alue	division including	subtraction ⁄	subtraction ⁄	subtraction/	Decimals
Mi	lultiplication &	Number & place	Addition &	Decimals	Decimals	Measurement (length)
di	ivision/	value	subtraction	Measurement (Mass	Measurement (Mass	<u>Unit 4</u>
Ge	eometry -	Multiplication &	Geometry -	<u>Unit 4</u>	<u>Unit 4</u>	Number - Multiplication &
Po	osition & direction	division including	Properties of shape	Number -	Number -	division
UI UI	nit 4	Number & place	<u>Unit 4</u>	Multiplication &	Multiplication &	Fractions (including
l Nu	umber -	value	Number -	division including	division	decimals & percentages)
Ac	ddition &	Geometry -	Multiplication &	Number & place	Multiplication &	Measurement
su	ıbtraction/	Position & direction	division including	value	division	(time)
Mo	leasurement	Unit 4	Number & place	Multiplication &	Measurement	
(m	noney)	Number -	value	division	(time)	
Fr	ractions	Multiplication &	Multiplication &	Measurement		
		division including	division including	(time)		
		Number & place	Number & place			
		value	value			
		Measurement	Measurement			
		(time)	(time)			
		Fractions				
Spring Ut	nit 5	Unit 5	Unit 5	Unit 5	Unit 5	Unit 5
Nu	umber -	Number -	Number -	Number -	Number -	Number – addition,
Nu	umber & place	Number & place	Number & place	Number & place	Number & place	subtraction, multiplication
va	alue .	value	value	value	value	&division including
Ac	ddition &	Addition &	Addition &	Addition &	Addition &	Number & place value
su	ıbtraction	subtraction	subtraction	subtraction/	subtraction/	Algebra
Ge	eometry -	including	including	Geometry -	Geometry -	Geometry -
Pr	roperties	-	-	Properties	Properties	Properties

	of shapes Unit 6 Number - Multiplication & division including Number & place value Multiplication & division Measurement (mass)	Measurement (money) Geometry - Properties of shapes Unit 6 Number - Multiplication & division including Number & place value Multiplication & division Measurement (mass)	Measurement (money) Geometry - Properties of shape Unit 6 Number - Multiplication & division including Number & place value Measurement (length) Fractions	of shape Unit 6 Number - Multiplication & division including Number & place value Fractions Measurement (length)	of shape Unit 6 Number - Multiplication & division Fractions Measurement (length)	of shape Unit 6 Number - Multiplication & division Multiplication & division (including decimals) Measurement (mass)
	Unit 7 Number - Addition & subtraction/ Addition & subtraction/ Measurement (time) Unit 8 Number - Number & place value/ Measurement (volume & capacity) Fractions	Unit 7 Number - Addition & subtraction Addition & subtraction including Statistics Measurement (money) Unit 8 Number - Multiplication & division including Number & place value Measurement (volume & capacity)	Unit 7 Number — Statistics Addition & subtraction Addition & subtraction including Measurement (money) Unit 8 Number - Multiplication & division including Number & place value Measurement (perimeter) Fraction	Unit 7 Number – Addition & subtraction Addition & subtraction Statistics Unit 8 Number - Multiplication & division Decimals Measurement (perimeter and area)	Unit 7 Number – Decimals Addition & subtraction Statistics Unit 8 Number - Multiplication & division Percentages (including fractions and decimals) Measurement (perimeter and area)	Unit 7 Number – Fractions Ratio & Proportion Statistics Unit 8 Number - Multiplication & division Multiplication & division including decimals Measurement (perimeter and area)
Summer	Unit 9 Number - Number & place value	Fractions Unit 9 Number - Number & place value	Unit 9 Number -	Unit 9 Number - Number & place value	Unit 9 Number - Number & place value	Unit 9 Number - Addition & subtraction Multiplication & division

Addition &	Addition &	Number & place	Addition &	Addition &	Algebra-
subtraction	subtraction	value Addition &	subtraction	subtraction	Properties of shape
Geometry -	Geometry -	subtraction	including	Geometry -	<u>Unit 10</u>
Position & d		Geometry -	Measurement	Properties of shape	Number -
Unit 10	Unit 10	Properties of shape	(money)	Unit 10	Multiplication & division
Number -	Number -	Unit 10	Geometry -	Number -	including decimals
Multiplicatiσ	r & (including	Number -	Properties of shape	Multiplication &	Fractions
division incl		Multiplication &	Unit 10	division including	Measurement
Number & p	,	division	Number -	Measurement	(volume & capacity)
value	division including	Measurement	Multiplication &	(Money)	· 1 Jr
Multiplicatiσ	3	(volume &	division	Fractions	
division	value	capacity)	Fractions	Measurement	
Measuremen		Fractions	Measurement	(volume &	
(length & he	l l		(volume &	capacity)	
	Number & place		capacity)	, ,	
	value				
	Measurement				
Unit 11	Unit 11	Unit 11	Unit 11	Unit 11	Unit 11
Number -	Number -	Number -	Number -	Number -	Number -
Addition &	Addition &	Addition &	Addition &	Addition &	Addition & subtraction
subtraction	subtraction	subtraction	subtraction	subtraction	multiplication & division
Addition &	Addition &	including	including	including	Ratio and proportion
subtraction/	subtraction	Measurement	Measurement	Measurement	Geometry – Position &
Geometry -	Statistics	(money)	(money)	(money)	direction
Properties of	shapes Unit 12	Measurement	Decimals	Percentages	<u>Unit 12</u>
Unit 12	Number -	(time)	Geometry – Position	(including fractions	Number –
Number -	Multiplication &	Unit 12	& direction	and decimals	Multiplication & division
Multiplicatiσ	n & division including	Number —	<u>Unit 12</u>	Geometry –	including decimals
division∕	Number & place	Statistics	Number –	Position & direction	Fractions including
Measuremen	value	Multiplication &	Multiplication &	<u>Unit 12</u>	decimals & percentages
(time)	Measurement	division	division	Number –	Statistics
Fractions	(time)	Multiplication &	Multiplication &	Multiplication &	
	Fractions	division	division	division including	
			Statistics	Measurement	
				(money)	
				Multiplication &	
				division including	

						Measurement (money) Statistics	
Impact							
		Exceeding Standard		Meeting Standard		Not yet meeting standard	