	Year 3 Objectives	Year 4 Objectives	Literacy	<u>Science</u>
Written r	nethods for +, - x, ÷	<u>Written methods for +, - x, ÷</u>	Narrative- Adventure and Mystery Stories	This term, the children will complete two
•	To write and calculate	 To solve problems, involving 	 Use the perfect form of verbs to mark 	science topics.
	mathematical statements for	multiplying and adding, including	relationships of time and cause.	Flectricity
	multiplication and division using	using the distributive law and harder	 Use connectives that signal time, shift 	How could we cope without electricity
	the multiplication tables they know,	multiplication problems such as	attention, inject suspense and shift the	for one day?
	including for two digit numbers and	which n objects are connected to m	setting.	Jor one day?
	one-digit numbers, using mental	objects.	 Organise paragraphs around a theme. 	The children will be learning about
	and progressing to written	• To multiply 2 and 3 digit numbers by	• Use techniques used by authors to create	electricity.
	methods.	a one digit number using a formal	characters and settings.	 Investigate circuits and their
•	To solve problems, including	written layout.	 Sequence paragraphs 	different components.
	missing number problems,	 To recognise and use factor pairs 	 Write for a wide range of purposes using 	2. Investigate the differences
	involving multiplication and	and commutativity in mental	the main features identified in reading.	between mains and battery-
	division, including integer scaling	calculations.	 Compose and rehearse sentences orally. 	powered circuits
	problems and correspondence	 To add and subtract numbers with 	 Plan, write, edit and improve. 	3 Identify whether or not a lamp
	problems in which n objects are	up to four digits using the efficient	 Use a mixture of simple, compound and 	will light in a simple series
	connected to m objects.	written methods of columnar	complex sentences.	singuit based on whether or not
•	To add and subtract numbers with	addition and subtraction where	 Write sentences that include 	circuit, based on whether or not
	up to three digits, using the	appropriate; add decimals to one	conjunctions, adverbs, direct speech,	the lamp is part of a complete
	efficient written methods of	decimal places.	clauses and adverbial phrases	loop with a battery
	columnar addition and subtraction.	 To estimate and use inverse 	Read aloud writing to a group or whole	4. Recognise some common
•	To estimate the answer to a	operations to check answers to a	class, using appropriate intonation.	conductors and insulators, and
	calculation and use inverse	calculation.	Join letters, deciding which letters are	associate metals with being
	operations to check answers.	 To solve addition and subtraction 	best left un-joined.	good conductors
•	To solve problems, including	two-step problems in contexts,	Make handwriting legible by ensuring	5. Investigate the purposes of
	missing number problems, using	deciding which operations and	down strokes of letters are parallel and	conducting and insulating
	number facts, place value, and	methods to use and why.	letters are spaced appropriately.	materials
	more complex addition and	Measures	• Spell correctly often misspelt words	6 Pocognico that a switch opons
	subtraction.	 To convert between different units 	Create characters, settings and plots.	o. Recognise that a switch opens
Measures	<u>5</u>	of measurement (km to m; hour to	• Use similar offectively.	and closes a circuit and
•	To measure, compare, add and	minute)	• Use a range of descriptive phrases	associate this with whether or
	subtract: lengths (m/cm/mm); mass	 To measure and calculate the 	including some collective pours	not a lamp lights in a simple
	(g/kg); volume/capacity (l/ml)	perimeter of rectilinear figure	including some conective nouris.	series circuit
•	To measure the perimeter of simple	(including squares) in centimetres	Poems to Perform	7. Plan and carry out an
	2D shapes.	and metres.	Use alliteration effectively	experiment to see how the
•	To add and subtract amounts of	 To find the area of rectilinear shapes 	Use similes effectively.	brightness of a bulb can be
	money to give change, using both £	by counting.	• Use a range of descriptive phrases	changed
_	and p in practical contexts.	 Solve problems involving converting 	including some collective nouns	Ŭ
Number a	and Place Value	hours to minutes; minutes to	Write for a wide range of purposes using	Sound
•	To count from 0 in multiples of 4, 8,	seconds; years to months; weeks to	the main features identified in reading.	Why is the sound that Little Mix
	50 and 100; finding 10 or 100 more	days.	Discuss words and phrases that capture	Make be enjoyed by co many?
	or less than a given number .	 To estimate, compare and calculate 	the imagination.	The shilder will be been about sound
•	To recognise the place value of	different measures, including money	 Prepare poems and plays to read aloud 	The children will also learn about sound.
	each digit in a three-digit number	in pounds and pence.	with expression, volume, tone and	1. Identify how sounds are made,
	(hundreds, tens, ones).	Number, Place Value and Rounding	intonation.	associating some of them with
•	To compare and order numbers up	• To count in multiplies of 6, 7, 9, 25	 Recognise some different forms of 	something vibrating
	to 1000.	and 1000.	poetry.	2. Investigate whether sounds can
•	To identify, represent and estimate	To find 1000 more or less than a	 Identify how language, structure and 	travel through different
	numbers using different	given number .	- ,	5

representations.

- To read and write numbers up to 1000 in numerals and in words.
- To solve number problems and practical problems involving these ideas.

Fractions

- To recognise and use fractions as numbers: unit fractions and nonunit fractions with small denominators.
- To compare and order unit fractions, and fractions with the same denominators.
- To add and subtract fractions with the same denominator within one whole (5/7 + 1/7 = 6/7).
- To 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.
- To recognise and show, using diagrams, equivalent fractions with small denominators.
- To solve problems that involve all of the above.

Statistics

- To interpret and present data using bar charts, pictograms and tables.
- To solve one step and two step problems such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts, pictograms and tables.

Reading and writing time

- To tell and write the time from an analogue clock, including using Roman Numerals from 1 to X11, and 12 hour and 24 hour clocks.
- To estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as am/pm, morning, afternoon, noon

- To recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones).
- To order and compare numbers beyond 1000.
- To count backwards through 0 to include negative numbers.
- To identify, represent and estimate numbers using different representations.
- To round any number to the nearest 10, 100 or 1000.
- To solve number and practical problems that involve all of the above and with increasingly large
- positive numbers.
 To read Roman numerals to 100 (I to C) and understand how, over time, the numeral system changed to include the concept of zero and place value.

Fractions

- Count up and down in hundredths; recognise that hundredths arise when dividing an object by a 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.
- Recognise and show, using diagrams, families of common equivalent fractions.
- To recognise and write decimal equivalents of any number of tenths or hundredths.
- To recognise and write decimal equivalents to 1/4; 1/2; 3/4.
- To find the effect of dividing a oneor two-digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths.

presentation contribute to meaning.Ask questions to improve understanding

• Ask questions to improve understan of a text.

Information Text: Non-chronological Report

- Recall and summarise main ideas.
- Retrieve and record information from non-fiction, using titles, headings, sub-headings and indexes.
- Identify main ideas drawn from more than one paragraph and summarise these.
- Use the main features of a type of writing.
- Compose and rehearse sentences orally.
- Plan, write, edit and improve.
- Organise paragraphs around a theme.
 Use a mixture of simple,
- compound and complex sentences.
- Extend the range of sentences with more than one clause by using a range of conjunctions, e.g. when, if, because, although.
- Use fronted adverbials
- Use commas after fronted adverbials.
- Join letters, deciding which letters are best left unjoined.
- Make handwriting legible by ensuring down strokes of letters are parallel and letters are spaced appropriately.
- Spell correctly often misspelt words

materials

- Recognise that vibrations from sounds travel through a medium to the ear
- 4. Find patterns between the pitch of a sound and features of the object that produced it
- 5. Find patterns between the volume of a sound and the strength of the vibrations that produced it
- Find out how the length, thickness and tightness of a string affects its pitch.

The children might work scientifically by:

- 1. Ask relevant questions
- 2. Report on findings from enquiries
- Set up simple practical enquiries, comparative and fair tests
- 4. Record findings using simple scientific language, drawings and labelled diagrams
- 5. Report on findings
- 6. Present data in a variety of ways to help in answering questions
- Make accurate measurements using a range of equipment, for example data loggers
- Use results to draw simple conclusions and suggest improvements and predictions for setting up further tests

	and midnight.	•	To round decimals with one decimal	Dialogues and Plays	
•	To know the number of seconds in		place to the nearest whole number .	Use the perfect form of verbs to mark	
	a minute and the number of days in	•	To compare numbers with the same	relationships of time and cause.	
	each month, year and leap year.		number of decimal places up to two	 Use connectives that signal time, 	
•	To compare the duration of events,		decimal places.	shift attention, inject suspense and	
	for example to calculate the time	•	To solve simple measure and money	shift the setting. • Write for a wide	
	taken by particular events or tasks.		problems involving fractions and	range of nurnoses using the main	
met	Ω.		decimals to two decimal places.	features identified in reading	
•	To draw 2D shapes and make 3D	Statistics	5	Compose and rehearse sentences	
	shapes using modelling materials;	٠	To interpret and present data using		
	recognise 3D shapes in different		bar charts and continuous data		
	orientations and describe them		using time graphs.	• Plan, write, edit and improve.	
	with increasing accuracy.	•	To solve comparison, sum and	• Use a mixture of simple, compound	
•	To recognise angles as a property of		difference problems using	and complex sentences.	
	a snape and associate angles with		information presented in bar charts,	 Write sentences that include 	
	turning. Ta identify right as also many and		pictograms, tables and simple line	conjunctions, adverbs, direct speech,	
•	to identify right angles, recognise	Deadire	graphs.	clauses and adverbial phrases	
	torn, three make three quarters of	Reading	To road, write and convert time	 Read aloud writing to a group or 	
	a turn and four a complete turn	•	hotwoon analogue and digital 12	whole class, using appropriate	
	identify whether angles are greater		between analogue and digital 12	intonation.	
	than or less than a right angle	•	To solve problems converting from	Join letters, deciding which letters	
•	To identify horizontal vertical	•	hours to minutes: minutes to	are best left un-joined.	
-	perpendicular and parallel lines in		seconds: years to months: weeks to	Make handwriting legible by	
	relation to other lines.		days	ansuring down strokes of letters are	
		Geometi	rv	narallal and lattors are spaced	
		•	To compare and classify geometric	parallel and letters are spaced	
			shapes, including quadrilaterals and	appropriately.	
			triangles (different types), based on	• Spell correctly often misspelt words	
			their own properties and sizes.	• Create characters, settings and plots.	
		•	To identify acute and obtuse angles	 Use alliteration effectively. 	
			and compare and order angles up to	 Use similes effectively. 	
			two right angles by size.	 Use a range of descriptive phrases 	
		•	Identify lines of symmetry in 2D	including some collective nouns.	
			shapes presented din different		
			orientations.		
		•	To complete a symmetric figure with		
			respect to a specific line of		
			symmetry.		
		•	To plot specified points and draw		
			sides to complete a given polygon.		
		•	To describe positions on a 2D grid as		
			co-ordinates in the first quadrant.		
		•	To describe movements between		
			positions as translations of a given		
			unit to the left/right, up/down.		

Geometry

 To plot specified points and draw 	
sides to complete a given polygon	
sides to complete a given polygoni	