



Vision:

At Oatlands Junior, the high-quality mathematics Curriculum provides children with a foundation for understanding the world; the ability to reason mathematically; an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.

OJS Curriculum Threads

Our curriculum vision is based upon our knowledge of our pupils and community. Our three curriculum threads are:

- Promote Equality and Diversity
- Provoke Curiosity



These threads are woven through each subject, alongside individual subject pedagogy, to ensure our learners benefit from a purposeful curriculum.

Fundamental British Values

-Democracy -Rule of Law -Individual Liberty -Respect and Tolerance

Embed Safe Behaviours

The mathematics curriculum is inclusive and promotes respect, tolerance and appreciation of equality and diversity through their pedagogical approaches (see Curriculum Handbook). Children are immersed into interesting and fun topics, that develop lively, enquiring minds and are encouraged to make links through wellconnected knowledge which also celebrates diversity. Links to Spiritual, Moral, Social and Cultural & FBV are made in Year Group OJS Passports and the wider curriculum offer in mathematics.

National Curriculum Aims

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 non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions





Planning and Resources

At OJS, we follow the National Curriculum as a foundation for our mathematics planning. We then bespoke our planning by using a mixture of NCETM and White Rose support documentations. Our close links with Oatlands Infants School and our local secondary schools ensure that our mathematics curriculum is both fluid and progressive.

Wider Offer

In mathematics, our wider offer within the school day is: MyMaths, TTRS, Numbots, Sport Numeracy and pre-teaching. We celebrate mathematics through annual events such as the OJS Maths Competition, HGS Maths Competition and other local and national events such as NSPCC Number Day and Maths Week UK. We celebrate maths weekly/ monthly through TTRS winners, Achievement Awards and Mathematician of the Month. The OJS Maths Ambassadors support in planning for these events as well as supporting maths within the classroom.

Links to other documents:

- Curriculum Handbook
- Teaching and Learning Policy
- Assessment and Reporting policy
- Mathematics guidance
- Calculation policies

	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Year 3	Key Learning:	Key Learning:	Key Learning:	Key Learning:	Key Learning:	Key Learning:
	Number: Place	Number: Money	Number: Fractions	Measurement: Time	Measurement -	Measurement: Time
	Value	linked to addition &	• count and down in	Statistics	mass & capacity	Statistics
	• count from 0 in	subtraction	tenths; recognise	• tell and write the	• measure, compare,	 interpret and
	multiples of 4, 8, 50	 estimate the 	that tenths arise	time from an	add, and subtract	present data using
	and 100; find 10 or	answer to a	from dividing an	analogue clock,	lengths	bar charts,
	100 more or less	calculation and use	object into 10	including using	(m/cm/mm); mass	pictograms, and
	than a given	inverse operations	equal parts and in	Roman numerals	(kg/g);	tables
	number	to check answers	dividing one-digit	from I to XII, and	volume/capacity	 solve one-step and
	 recognise the place 	 solve problems, 	numbers or	12-hour and 24-	(l/ml)	two-step questions
	value of each digit	including missing	quantities by 10	hour clocks		[for example, 'How
	in a three-digit	number problems,	recognise, find, and	• estimate and read		many more?' and
		using number facts,	write fractions of a	time with		'How many





	number (hundreds,	place value, and	discrete set of	increasing accuracy	Geometry –	fewer?'] using
	tens, ones)	more complex	objects: unit	to the nearest	properties of shapes	information
•	compare and order	addition and	fractions and no	minute; record and	• draw 2-D shapes	presented in scaled
	numbers up to	subtraction.	unit fractions with	compare time in	and make 3-D	bar charts and
	1000		small denominators	terms of seconds,	shapes using	pictograms and
•	identify, represent,	Number:	 recognise and use 	minutes, and hours;	modelling	tables
	and estimate	Multiplication and	fractions as	use vocabulary	materials;	
	numbers using	Division	numbers: unit	such as o'clock,	recognise 3-D	Calculation
	different	 recall and use 	fractions and non-	a.m./p.m., morning,	shapes in different	problem solving:
	representations	multiplication and	unit fractions with	afternoon, noon,	orientations and	 solve problems,
	read and write	division facts for	small denominators	and midnight	describe them	including missing
	numbers up to	the 3, 4 and 8	 recognise and 	• compare durations	 recognise angles as 	number problems,
	1000 in numerals	multiplication	show, using	of events [for	a property of shape	using number facts,
	and in words	tables	diagrams,	example to	or a description of	place value, and
•	solve number	• write and calculate	equivalent fractions	calculate the time	a turn	more complex
	problems and	mathematical	with small	taken by events or	 identify right 	addition and
	practical problems	statements for	denominators	tasks].	angles, recognise	subtraction.
	involving these	multiplication and	• add and subtract	 know the number 	that two right	 solve number
	ideas.	division using the	fractions with the	of seconds in a	angles make a half-	problems and
		multiplication	same denominator	minute and the	turn, three make	practical problems
N	umber: Addition	tables that they	within one whole	number of days in	three quarters of a	involving these
an	nd Subtraction	know, including for	[for example, 7 5 +	each month, year,	turn and four a	ideas
•	add and subtract	two-digit numbers	7 = 7 6]	and leap year	complete turn;	 solve problems,
	numbers mentally,	of times one-digit	• compare and order	1 1	identify whether	including missing
	including:	numbers, using	unit fractions, and	Measurement -	angles are greater	number problems,
≻	a three-digit	mental and	fractions with the	money	than or less than a	involving
	number and ones	progressing to	same denominators	 add and subtract 	right angle	multiplication and
≻		formal written	 solve problems that 	amounts of money	 identify horizontal 	division, including
	number and tens	methods	involve all the	to give change,	and vertical lines	positive integer
		 solve problems, 	above.	using both £ and p	and pairs of	scaling problems
		including missing				and





a three-digit	number problems,	Measurement:	in practical	perpendicular and	correspondence
number and	involving	Length & Perimeter	contexts	parallel lines.	problems in which
hundreds	U	•	Contexts	paraner mes.	
	multiplication and	• measure the	Kara Marahadawa	Kan Manahadana	n objects are
• add and subtract	division, including	perimeter of simple	Key Vocabulary	Key Vocabulary	connected to m
numbers with up to	positive integer	2-D shapes	From OJS key	From OJS key	objects
three digits, using	scaling problems	and the second sec	vocabulary for	vocabulary for	
formal written	and	Key Vocabulary	subject.	subject.	Key Vocabulary
methods of	correspondence	From OJS key			 From OJS key
columnar addition	problems in which	vocabulary for	Wider Offer	Wider Offer	vocabulary for
and subtraction	n objects are	subject.	MyMaths, TTRS,	MyMaths, TTRS,	subject.
• estimate the	connected to m		Numbots, Sport	Numbots, Sport	
answer to a	objects	Wider Offer	Numeracy, pre-	Numeracy, pre-	Wider Offer
calculation and use		MyMaths, TTRS,	teaching, weekly TTRS	teaching, weekly TTRS	MyMaths, TTRS,
inverse operations	Key Vocabulary	Numbots, Sport	winners, Achievement	winners, Achievement	Numbots, Sport
to check answers	 From OJS key 	Numeracy, pre-	Awards, Mathematician	Awards, Mathematician	Numeracy, pre-
	vocabulary for	teaching, weekly TTRS	of the Month	of the Month	teaching, weekly TTRS
Key Vocabulary	subject.	winners, Achievement			winners, Achievement
From OJS key		Awards, Mathematician	Curriculum	Curriculum	Awards, Mathematician
vocabulary for	Wider Offer	of the Month, NSPCC	Threads	Threads	of the Month
subject.	MyMaths, TTRS,	Number Day 2023	(AD)	(A)	
Subject.	Numbots, Sport		(D)		Curriculum Threads
Wider Offer	Numeracy, pre-				
MyMaths, TTRS,	teaching, weekly TTRS		We are curious about	We are curious about	
Numbots, Sport	winners, Achievement		links within and	links within and	
Numeracy, pre-	Awards, Mathematician		between areas of	between areas of	We are curious about
teaching, weekly TTRS	of the Month		mathematics.	mathematics.	links within and
winners, Achievement					between areas of
-					mathematics.
Awards, Mathematician		and the second sec			
of the Month		 A state of the sta	We learn about	We learn about	
		Curriculure	famous mathematicians	famous mathematicians	
		Curriculum			





Curriculum Curriculum Threads across the world from across the world from We learn about famous mathematicians Threads Threads different faiths and different faiths and across the world from cultures. cultures. different faiths and (Ø \bigcirc cultures. We are curious about We are curious about \oslash We are safe when We are safe when links within and We are curious about links within and accessing TTRS, accessing TTRS, between areas of links within and between areas of Numbots and Numbots and We are safe when mathematics. between areas of mathematics. MyMaths. MyMaths. mathematics. accessing TTRS, Numbots and (\bigcirc) MyMaths. We learn about We learn about famous mathematicians We learn about famous mathematicians famous mathematicians across the world from across the world from different faiths and across the world from different faiths and different faiths and cultures. cultures. cultures. \oslash \oslash We are safe when We are safe when accessing TTRS, We are safe when accessing TTRS, Numbots and Numbots and accessing TTRS, MyMaths. Numbots and MyMaths. MyMaths.





	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Year 4	Key Learning: Number:	Key Learning: Number:	Key Learning: Number:	Key Learning: Decimals	Key Learning: Geometry –	Key Learning: Calculation
	Place Value	Multiplication and	Fractions	 round decimals 	Position and	problem solving
	 count in multiples 	Division	 recognise and 	with one decimal	Direction	 estimate and use
	of 6, 7, 9, 25 and	 recall multiplication 	show, using	place to the	describe positions	inverse operations
	1000	and division facts	diagrams, families	nearest whole	on a 2-D grid as	to check answers
	• find 1000 more or	for multiplication	of common	number	coordinates in the	to a calculation
	less than a given	tables up to 12 ×	equivalent fractions	• compare numbers	first quadrant	solve addition and
	number	12	• count and down in	with the same	describe	subtraction two-
	 count backwards 	 use place value, 	hundredths;	number of decimal	movements	step problems in
	through zero to	known and derived	recognise that	places up to two	between positions	contexts, deciding
	include negative	facts to multiply	hundredths arise	decimal places	as translations of a	which operations
	numbers	and divide mentally,	when dividing an	• solve simple	given unit to the	and methods to
	• recognise the place	including	object by one	measure and	left/right and	use and why.
	value of each digit	multiplying by 0	hundred and	money problems	up/down	 solve problems
	in a four-digit	and I; dividing by I;	dividing tenths by	involving fractions	 plot specified 	involving
	number	multiplying	ten.	and decimals to	points and draw	multiplying and
	(thousands,	together three	solve problems	two decimal places.	sides to complete a	adding, including
	hundreds, tens, and	numbers	involving		given polygon	using the
	ones)	 recognise and use 	increasingly harder	Measurement:		distributive law to
	• order and compare	factor pairs and	fractions to	Correspondence	Geometry - Shape	multiply two-digit
	numbers beyond	commutativity in	calculate quantities,	and Scaling	 compare and 	numbers by one
	1000	mental calculations	and fractions to	problems	classify geometric	digit, integer scaling
	• identify, represent,	 multiply two-digit 	divide quantities,	Convert between	shapes, including	problems and
	and estimate	and three-digit	including non-unit	different units of	quadrilaterals and	harder
	numbers using	numbers by a one-	fractions where the	measure [for	triangles, based on	correspondence
	different	digit number using	answer is a whole	example, kilometer	their properties	problems such as n
	representations	formal written	number	to meter, hour to	and sizes	objects are
		layout		minute]	 identify acute and 	connected to m
		/			obtuse angles and	objects.

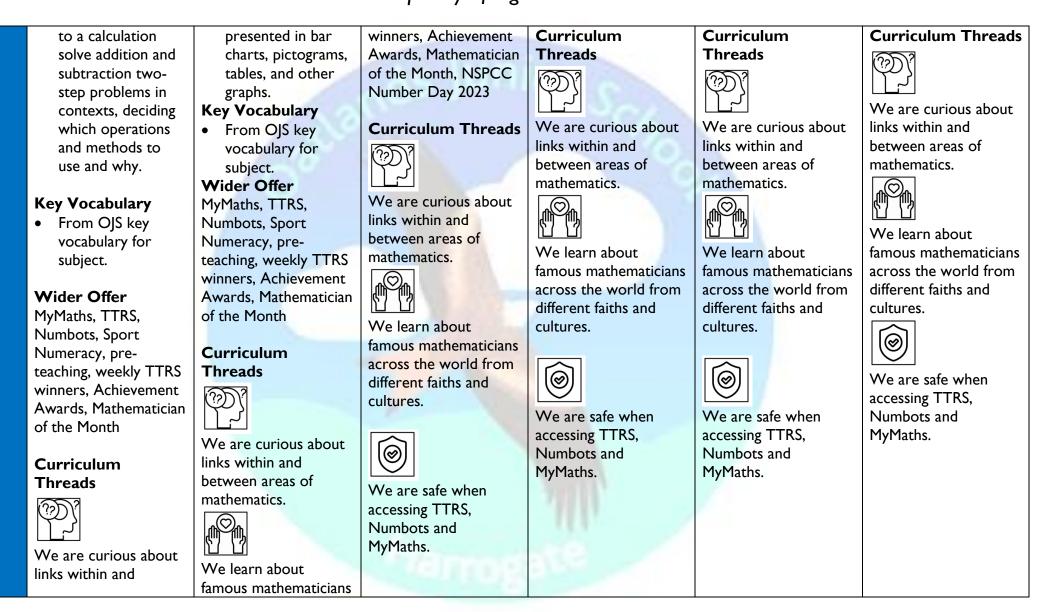




a nound only number	a achua suchlama	a add and subture st	e measure and	compare and order	
 round any number to the nearest 10 	 solve problems 	add and subtract	 measure and calculate the 	angles up to two	Measurement: Time
to the nearest 10, 100 or 1000 solve	involving	fractions with the		U	
	multiplying and	same denominator	perimeter of a	right angles by size	 read, write, and
number and	adding, including	• recognise and write	rectilinear figure	 identify lines of 	convert time
practical problems	using the	decimal equivalents	(including squares)	symmetry in 2-D	between analogue
that involve all the	distributive law to	of any number of	in centimeters and	shapes presented in	and digital 12- and
above and with	multiply two-digit	tenths or	meters	different	24-hour clocks
increasingly large	numbers by one	hundredths	• find the area of	orientations	 solve problems
positive numbers	digit, integer scaling	• recognise and write	rectilinear shapes	• complete a simple	involving
• read Roman	problems and	decimal equivalents	by counting	symmetric figure	converting from
numerals to 100 (I	harder	to 4 I, 2 I, 4 3	squares estimate,	with respect to a	hours to minutes;
to C) and know	correspondence	 find the effect of 	compare, and	specific line of	minutes to
that over time, the	problems such as n	dividing a one- or	calculate different	symmetry.	seconds; years to
numeral system	objects are	two-dig <mark>it numbe</mark> r	measures, including		months; weeks to
changed to include	connected to m	by IO and IOO,	money in pounds	Key Vocabulary	days.
the concept of zero	objects.	identifying the value	and pence	 From OJS key 	
and place value.	Contraction of the second s	of the digits in the		vocabulary for	Key Vocabulary
	Measures:	answer as ones,	Key Vocabulary	subject.	 From OJS key
Number: Addition	Statistics	tenths, and	 From OJS key 		vocabulary for
and Subtraction	 interpret and 	hundredths	vocabulary for	Wider Offer	subject.
 add and subtract 	present discrete	1 A A A A A A A A A A A A A A A A A A A	subject.	MyMaths, TTRS,	
numbers with up to	and continuous	Key Vocabulary		Numbots, Sport	Wider Offer
4 digits using the	data using	From OJS key	Wider Offer	Numeracy, pre-	MyMaths, TTRS,
formal written	appropriate	vocabulary for	MyMaths, TTRS,	teaching, weekly TTRS	Numbots, Sport
methods of	graphical methods,	subject.	Numbots, Sport	winners, Achievement	Numeracy, pre-
columnar addition	including bar charts		Numeracy, pre-	Awards, Mathematician	teaching, weekly TTRS
and subtraction	and time graphs.	Wider Offer	teaching, weekly TTRS	of the Month	winners, Achievement
where appropriate	 solve comparison, 	MyMaths, TTRS,	winners, Achievement		Awards, Mathematician
• estimate and use	sum and difference	Numbots, Sport	Awards, Mathematician		of the Month
inverse operations	problems using	Numeracy, pre-	of the Month		
to check answers	information	teaching, weekly TTRS			









Yea



	between areas of mathematics. We learn about famous mathematicians across the world from different faiths and cultures. We are safe when accessing TTRS, Numbots and MyMaths.	across the world from different faiths and cultures. We are safe when accessing TTRS, Numbots and MyMaths.	tos Juni	or Schoo		
	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
ır 5	Key Learning: Number: Place Value	Key Learning: Number: Multiplication and Division	Number: Fractions Key Learning: • compare and order	Key Learning: Number: Decimals and Percentages	Key Learning: Geometry: Properties of	Key Learning: Measurement: Conversions
	 read, write, order, and compare numbers to at least I 000 000 and determine the value of each digit count forwards or backwards in steps 	 identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers 	 fractions whose denominators are all multiples of the same number identify, name, and write equivalent fractions of a given fraction, 	 read and write decimal numbers as fractions [for example, 0.71 = 100 71] recognise and use thousandths and relate them to 	 Shapes identify 3-D shapes, including cubes and other cuboids, from 2-D representations know angles are measured in 	 convert between different units of metric measure (for example, kilometer and meter; centimeter and meter; centimeter and





 any given number up to 1 000 000 interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 solve number problems and practical problems that involve all the above read Roman 	 know and use the vocabulary of prime numbers, prime factors, and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers multiply and divide numbers mentally drawing upon known facts divide numbers up to 4 digits by a one- digit numbers 	 represented visually, including tenths and hundredths recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > I as a mixed number [for example, 5 2 + 5 4 = 5 6 = I 5 I] add and subtract fractions with the same denominators and denominators that are multiples of the same number multiply proper fractions and mixed numbers, supported by materials and diagrams 	 tenths, hundredths, and decimal equivalents round decimals with two decimal places to the nearest whole number and to one decimal place read, write, order, and compare numbers with up to three decimal places solve problems involving number up to three decimal places recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal 	 degrees: estimate and compare acute, obtuse, and reflex angles draw given angles, and measure them in degrees (o) identify: angles at a point and one whole turn (total 360o) angles at a point on a straight line and 2 I a turn (total 180o) other multiples of 90o use the properties of rectangles to deduce related facts and find missing lengths and angles distinguish between regular and irregular polygons based on reasoning 	 millimeter; gram and kilogram; liter and milliliter) understand and use approximate equivalences between metric units and common imperial units such as inches, pounds, and pints estimate volume [for example, using I cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water] solve problems involving converting between units of time use all four operations to solve problems involving measure [for example, length,
and subtraction	interpret remainders	 equivalents of 2 1, 4 1, 5 1, 5 2, 5 4 	 solve problems which require 	about equal sides and angles.	mass, volume, money] using





• add and subtract		appropriately for	and those fractions	knowing		decimal notation,
whole numbers		the context	with a denominator	percentage and	Geometry: Position	including scaling.
with more than 4	•	multiply and divide	of a multiple of 10	decimal	and direction	
digits, including		whole numbers and	or 25.		• identify, describe,	Measures:
using formal		those involving		Measures: Statistics	and represent the	Perimeter and Area
written methods		decimals by 10, 100	Key Vocabulary	• solve comparison,	position of a shape	 measure and
(columnar addition		and 1000	From OJS key	sum and difference	following a	calculate the
and subtraction)	•	recognise and use	vocabulary for	problems using	reflection or	perimeter of
 add and subtract 		square numbers	subject.	information	translation, using	composite
numbers mentally		and cube numbers,		presented in a line	the appropriate	rectilinear shapes
with increasingly		and the notation	Wider Offer	graph complete,	language, and know	in centimeters and
large numbers		for squared (2) and	MyMaths, TTRS,	read and interpret	that the shape has	meters
• use rounding to		cubed (3)	Numbots, Sport	information in	not changed.	 calculate and
check answers to	•	solve problems	Numeracy, pre-	tables, including		compare the area
calculations and		involving	teaching, weekly TTRS	timetables.	Key Vocabulary	of rectangles
determine, in the		multiplication and	winners, Achievement	C-1	 From OJS key 	(including squares),
context of a		division including	Awards, Mathematician	Key Vocabulary	vocabulary for	and including using
problem, levels of		using their	of the Month, NSPCC	From OJS key	subject.	standard units,
accuracy		knowledge of	Number Day 2023	vocabulary for		square centimeters
 solve addition and 		factors and		subject.	Wider Offer	(cm2) and square
subtraction multi-		multiples, squares,	Curriculum Threads	the second s	MyMaths, TTRS,	meters (m2) and
step problems in		and cubes	<u>[30]</u>	Wider Offer	Numbots, Sport	estimate the area
contexts, deciding	•	solve problems		MyMaths, TTRS,	Numeracy, pre-	of irregular shapes
which operations		involving addition,	We are curious about	Numbots, Sport	teaching, weekly TTRS	
and methods to		subtraction,	links within and	Numeracy, pre-	winners, Achievement	Key Vocabulary
use and why.		multiplication and	between areas of	teaching, weekly TTRS	Awards, Mathematician	From OJS key
		division and a	mathematics.	winners, Achievement	of the Month	vocabulary for
Key Vocabulary		combination of		Awards, Mathematician	Cumieulum	subject.
From OJS key		these, including		of the Month	Curriculum	Midau Offer
vocabulary for		understanding the			Threads	Wider Offer
subject.						





Wider Offer meaning of the We learn about Curriculum MyMaths, TTRS, Threads MyMaths, TTRS, equal's sign famous mathematicians Numbots, Sport Numbots, Sport Numeracy, presolve problems across the world from • ?We are curious about different faiths and Numeracy, preteaching, weekly TTRS involving links within and teaching, weekly TTRS multiplication and cultures. winners, Achievement We are curious about between areas of Awards, Mathematician winners, Achievement division, including \otimes links within and mathematics. Awards, Mathematician scaling by simple of the Month between areas of of the Month fractions and We are safe when mathematics. Curriculum Threads problems involving accessing TTRS, Curriculum simple rates. \odot We learn about Numbots and Threads famous mathematicians MyMaths. **Key Vocabulary** We learn about across the world from We are curious about From OJS key • famous mathematicians different faiths and links within and vocabulary for across the world from cultures. We are curious about between areas of subject. different faiths and links within and mathematics. \oslash cultures. between areas of Wider Offer mathematics. MyMaths, TTRS, \oslash We are safe when 6 Numbots, Sport accessing TTRS, We learn about Numeracy, pre-We are safe when Numbots and famous mathematicians teaching, weekly TTRS accessing TTRS, MyMaths. We learn about across the world from winners, Achievement Numbots and famous mathematicians different faiths and Awards, Mathematician MyMaths. across the world from cultures. of the Month different faiths and \oslash cultures. Curriculum Threads \oslash We are safe when accessing TTRS, We are safe when Numbots and accessing TTRS, MyMaths.





	Numbots and MyMaths.	We are curious about links within and between areas of mathematics. We learn about famous mathematicians across the world from different faiths and cultures. We are safe when accessing TTRS, Numbots and MyMaths.	ads Juni	0759/00		
	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Year 6	Key Learning: Number: Place	Key Learning: Number: Fractions	Key Learning: Number: Decimals	Key Learning: Number: Algebra	Key Learning: Geometry:	Key Learning: Investigations and
	Value	 use common 	 identify the value of 	 use simple 	Properties of shape	problem solving
	 read, write, order, 	factors to simplify	each digit in	formulae	 draw 2-D shapes 	 solve addition and
	and compare	fractions; use	numbers given to	 generate and 	using given	subtraction multi-
	numbers up to 10	common multiples	three decimal	describe linear	dimensions and	step problems in
	000 000 and determine the	to express fractions in the	places and multiply and divide numbers	number sequences express missing	anglesrecognise, describe,	contexts, deciding which operations
	value of each digit	same denomination	by 10, 100 and	number problems	• recognise, describe, and build simple 3-	and methods to
	0		1000 giving	algebraically find	······································	use and why





					1		1	D I I I I		1
,	٠	•							٠	solve problems
								•		involving addition,
required degree of		fractions > I			100		•	•		subtraction,
accuracy	٠	add and subtract	•	multiply one-digit		unknowns		, .		multiplication, and
 use negative 		fractions with		numbers with up to		enumerate	1.7			division
numbers in		different		two decimal places		possibilities of		their properties	٠	use estimation to
context, and		denominators and		by whole numbers		combinations of		and sizes and find		check answers to
calculate intervals		mixed numbers,	•	use written division		two variables.		unknown angles in		calculations and
across zero		using the concept		methods in cases				any triangles,		determine, in the
 solve number and 		of equivalent		where the answer	M	easurement:		quadrilaterals, and		context of a
practical problems		fractions		has up to two	Co	onverting Units		regular polygons		problem, an
that involve all the	•	multiply simple		decimal places	•	solve problems	•	illustrate and name		appropriate degree
above		pairs of proper	•	solve problems		involving the		parts of circles,		of accuracy.
				which require		calculation and		including radius,	•	solve problems
Number: Addition,		the answer in its		answers to be		conversion of units		diameter and		which require
Subtraction,		simplest form [for		rounded to		of measure, using		circumference and		answers to be
Division and		example, 4 × 2		specified degrees of		decimal notation		know that the		rounded to
Multiplication		= 8 1]				up to three decimal		diameter is twice		specified degrees of
	•	divide proper	•	recall and use		places where		the radius		accuracy
., .				equivalences		appropriate		recognise angles	•	recall and use
•					•	use, read, write,		where they meet at		equivalences
3 , 3		-				and convert		a point, are on a		between simple
						between standard		straight line, or are		fractions, decimals,
written method of	•					units, converting		vertically opposite,		and percentages,
long multiplication				different contexts.		measurements of		and find missing		including in
• .		calculate decimal				length, mass,		angles.		different contexts.
			Νι	umber: Ratio		volume, and time			•	solve problems
J			•			from a smaller unit	Ge	eometry: Position		involving the
-		-			-	of measure to a	an	d Direction		calculation and
formal written		-		relative sizes of		larger unit, and vice	•	describe positions		conversion of units
		-				versa, using decimal		on the full		of measure, using
	number to a required degree of accuracy use negative numbers in context, and calculate intervals across zero solve number and practical problems that involve all the above Number: Addition, Subtraction, Division and Multiplication multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4 digits by a two-digit whole number using the	 number to a required degree of accuracy use negative numbers in context, and calculate intervals across zero solve number and practical problems that involve all the above Number: Addition, Subtraction, Division and Multiplication multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4 digits by a two-digit whole number using the formal written 	 number to a required degree of accuracy use negative numbers in context, and calculate intervals across zero solve number and practical problems that involve all the above Number: Addition, Subtraction, Division and Multiplication multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4 digits by a two-digit whole number using the formal written for example, 3 I ÷ 2 = 6 1] associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for 	 number to a required degree of accuracy use negative numbers in context, and calculate intervals across zero solve number and practical problems that involve all the above number: Addition, Subtraction, Division and Multiplication multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4 digits by a two-digit whole number using the formal written divide numbers up to 4 digits by a two-digit whole number using the formal written divide numbers up to 4 digits by a two-digit whole number using the formal written divide numbers up to 4 digits by a two-digit whole number using the formal written divide numbers up to 4 digits by a two-digit whole number using the formal written 	number to a required degree of accuracyfractions, including fractions > 1three decimal placesuse negative numbers in context, and calculate intervals across zeroadd and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractionsmultiply one-digit numbers with up to two decimal placessolve number and practical problems that involve all the abovemultiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 4 1 × 2 1 = 8 1]use written division methods in cases where the answer has up to two decimal placesNumber: Addition, Subtraction, Division and digits by a two-digit whole number using the formal written method of long multiplicationmultiply simple pairs of proper fractions by whole numbers [for example, 3 1 ÷ 2 = 6 1]solve problems which require answers to be rounded to specified degrees of accuracymuser number using the formal two-digit whole number using the formal writtenassociate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [forNumber: RatioNumber: Ratiosolve problems involving the relative sizes of	number to a required degree of accuracyfractions, including fractions > 1three decimal placesuse negative numbers in context, and calculate intervals across zeroadd and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractionsmultiply one-digit numbers with up to two decimal placessolve number and practical problems that involve all the aboveof equivalent fractions, writing the answer in its simplest form [for example, 4 1 × 2 1 = 8 1]use written division methods in cases where the answer has up to two decimal placesNumber: Addition, Subtraction, Division and digits by a two-digit whole number using the formal written method of long multiplicationfractions by whole numbers [for example, 3 1 ÷ 2 = 6 1]muter example, 3 1 ÷ 2 = 6 1]mumber: Ratio• divide numbers up to 4 digits by a two-digit whole number using the formal writtenfraction [for example, 3 1 ÷ 2 = 6 1]Number: Ratio• divide numbers up to 4 digits by a two-digit whole number using the formal writtenfraction [for• divide numbers up to 4 digits by a two-digit whole number using the formal writtenfraction [for• divide numbers up to 4 digits by a two-digit whole number using the formal writtenfraction [for• divide numbers up to 4 digits by a two-digit whole number using the formal writtenfraction [for• divide numbers up to 4 digits by a two-digit whole number using the formal writtenfraction [for• divide numbers<	number to a required degree of accuracyfractions, including fractions > 1three decimal placesthat satisfy an equation with two unknownsuse negative numbers in calculate intervals across zero• add and subtract fractions with different• multiply one-digit numbers with up to two decimal places• multiply simple possibilities of combinations of two variables.Number: Addition, Subtraction, Division and Multiply multi-digit numbers up to 4 digits by a two-digit whole number to 4 digits by a two-digit whole number using the formal written• divide proper fractions by whole numbers [for example, 3 1 ÷ 2 = 6 1]• divide proper fractions and calculate decimal fraction equivalents for example, 3 1 ÷ 2 = 6 1]• recall and use equivalences between simple fractions, decimals, and percentages, including in different contexts.• use, read, write, and percentages, including in different contexts.• divide number using the formal written• divide proper fraction equivalents for example, 3 1 ÷ 2 = 6 1]• solve problems including in different contexts.• use, read, write, and percentages, including in different contexts. <t< td=""><td>number to a required degree of accuracyfractions, including fractions > 1three decimal placesthat satisfy an equation with two unknowns enumerate possibilities of combinations of two variables.• use negative numbers in context, and calculate intervals across zero• add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions• multiply one-digit numbers with up to two decimal places• multiply one-digit numbers up to two decimal places• multiply one-digit numbers of two variables.•Number: Addition, Subtraction, Division and multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication• multiply simple pairs of proper fractions by whole numbers [for example, 3 1 ÷ 2 = 6 1]• solve problems including in different contexts.• solve problems including in different contexts.• divide number uto 4 digits by a two-digit whole number using the formal written• associate a fraction for example, 0 1 ÷ 2 = 6 1]• solve problems including in different contexts.• use, read, write, and percentages, including in different contexts.• divide number two-digit whole number using the formal written• associate a fraction for example, 0 1 ÷ 2 = 6 1]• solve problems involving the raction equivalents [for example, 0 157] for</td><td>number to a required degree of accuracyfractions, including fractions > 1three decimal placesthat satisfy an equation with two unnownsmaking netsuse negative numbers in calculate intervals across zero• add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions, writing that involve all the above• multiply simple pairs of proper fractions, writing the answer ints simplest form [for example, 3 I + 2 = using the formal written method of long multiplication• that satisfy an equation with two unnowns enumerate possibilities of combinations of two variables.• making netsNumber: Addition, Subtraction, Division and Multiply multi-digit numbers up to 4 digits by a two-digit whole number to 4 digits by a two-digit whole number using the formal written• muter a fraction indice numbers (for example, 3 I + 2 = 6 1]• three decimal places • solve problems simplest form [for example, 3 I + 2 = 6 1]• muter and calculate decimal fractions and calculate decimal fractions granter• muter and calculate decimal places• divide proper fractions, divide proper fractions, divide proper fractions division and calculate decimal fraction equivalents• divide proper fractions whole number slifer example, 3 I + 2 = 6 1]• divide proper fractions and calculate decimal places• divide proper fractions, divide proper </td><td>number to a required degree of accuracyfractions, including fractions > 1three decimal placesthat satisfy an equation with two unknowns enumerate possibilities of combinations of two decimal placesmaking netsuse negative numbers in calculate intervals across zero• add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions, writing that involve all the above• multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 4 × 2 = 8 1]• multiply simple pairs of proper fractions by whole numbers using the formal whole numbers (digits by a two-digit whole numbers to 4 digits by a two-digit whole numbers using the formal written method of long multiplicationfractions, writing the answer in its simplest form [for example, 3 + 2 = 6 1]three decimal places where the answer has up to two decimal places solve problems which require answers to be rounded to specified degrees of accuracythat satisfy an equation with two unknowns enumerate possibilities of comverting Unitsmaking netsNumber: Addition, Subtraction, bivenen sup to 4 digits by a two-digit whole number using the formal written method of long multiplicationfraction equivalents fraction equivalents fraction and calculate decimal fraction and calculate decimal fraction and calculate decimal fraction and calculate decimal fraction and calculate decimal fractions whole number using the fraction forthree decimal maker in its solve problems including in different contexts.three deci</td></t<>	number to a required degree of accuracyfractions, including fractions > 1three decimal placesthat satisfy an equation with two unknowns enumerate possibilities of combinations of two variables.• use negative numbers in context, and calculate intervals across zero• add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions• multiply one-digit numbers with up to two decimal places• multiply one-digit numbers up to two decimal places• multiply one-digit numbers of two variables.•Number: Addition, Subtraction, Division and multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication• multiply simple pairs of proper fractions by whole numbers [for example, 3 1 ÷ 2 = 6 1]• solve problems including in different contexts.• solve problems including in different contexts.• divide number uto 4 digits by a two-digit whole number using the formal written• associate a fraction for example, 0 1 ÷ 2 = 6 1]• solve problems including in different contexts.• use, read, write, and percentages, including in different contexts.• divide number two-digit whole number using the formal written• associate a fraction for example, 0 1 ÷ 2 = 6 1]• solve problems involving the raction equivalents [for example, 0 157] for	number to a required degree of accuracyfractions, including fractions > 1three decimal placesthat satisfy an equation with two unnownsmaking netsuse negative numbers in calculate intervals across zero• add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions, writing that involve all the above• multiply simple pairs of proper fractions, writing the answer ints simplest form [for example, 3 I + 2 = using the formal written method of long multiplication• that satisfy an equation with two unnowns enumerate possibilities of combinations of two variables.• making netsNumber: Addition, Subtraction, Division and Multiply multi-digit numbers up to 4 digits by a two-digit whole number to 4 digits by a two-digit whole number using the formal written• muter a fraction indice numbers (for example, 3 I + 2 = 6 1]• three decimal places • solve problems simplest form [for example, 3 I + 2 = 6 1]• muter and calculate decimal fractions and calculate decimal fractions granter• muter and calculate decimal places• divide proper fractions, divide proper fractions, divide proper fractions division and calculate decimal fraction equivalents• divide proper fractions whole number slifer example, 3 I + 2 = 6 1]• divide proper fractions and calculate decimal places• divide proper fractions, divide proper 	number to a required degree of accuracyfractions, including fractions > 1three decimal placesthat satisfy an equation with two unknowns enumerate possibilities of combinations of two decimal placesmaking netsuse negative numbers in calculate intervals across zero• add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions, writing that involve all the above• multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 4 × 2 = 8 1]• multiply simple pairs of proper fractions by whole numbers using the formal whole numbers (digits by a two-digit whole numbers to 4 digits by a two-digit whole numbers using the formal written method of long multiplicationfractions, writing the answer in its simplest form [for example, 3 + 2 = 6 1]three decimal places where the answer has up to two decimal places solve problems which require answers to be rounded to specified degrees of accuracythat satisfy an equation with two unknowns enumerate possibilities of comverting Unitsmaking netsNumber: Addition, Subtraction, bivenen sup to 4 digits by a two-digit whole number using the formal written method of long multiplicationfraction equivalents fraction equivalents fraction and calculate decimal fraction and calculate decimal fraction and calculate decimal fraction and calculate decimal fraction and calculate decimal fractions whole number using the fraction forthree decimal maker in its solve problems including in different contexts.three deci





division, and	Key Vocabulary	where missing	notation to up to	coordinate grid (all	decimal notation up
interpret	From OJS key	values can be found	three decimal	four quadrants)	to three decimal
remainders as	vocabulary for	by using integer	places convert	 draw and translate 	places where
whole number	subject.	multiplication and	between miles and	simple shapes on	appropriate
remainders,		division facts	kilometers	the coordinate	
fractions, or by	Wider Offer	(CA)		plane and reflect	Key Vocabulary
rounding, as	MyMaths, TTRS,	Number:	Measurement:	them in the axes.	From OJS key
appropriate for the	Numbots, Sport	Percentages	Perimeter, area,		vocabulary for
context	Numeracy, pre-	 solve problems 	and volume	Year 6 Mock SATs	subject.
• divide numbers up	teaching, weekly TTRS	involving the	 recognise that 	in Hall.	
to 4 digits by a	winners, Achievement	calculation of	shapes with the		Wider Offer
two-digit number	Awards, Mathematician	percentages [for	same areas can	Measures: Statistics	MyMaths, TTRS,
using the formal	of the Month	example, of	have different	 interpret and 	Numbots, Sport
written method of		measures, and such	perimeters and vice	construct pie	Numeracy, pre-
short division	Curriculum	as 15% of 360] and	versa	charts and line	teaching, weekly TTRS
where appropriate,	Threads	the use of	 recognise when it 	graphs and use	winners, Achievement
interpreting	(D)	percentages for	is possible to use	these to solve	Awards, Mathematician
remainders		comparison	formulae for area	problems	of the Month
according to the		solve problems	and volume of	 calculate and 	
context	We are curious about	involving similar	shapes	interpret the mean	Curriculum Threads
 perform mental 	links within and	shapes where the	• calculate the area	as an average	(20)?
calculations,	between areas of	scale factor is	of parallelograms	C	
including with	mathematics.	known or can be	and triangles	Revision	
mixed operations		found	• calculate, estimate,	SATs	We are curious about
and large numbers		 solve problems 	and compare		links within and
 identify common 		involving unequal	volume of cubes	Key Vocabulary	between areas of
factors, common	We learn about famous mathematicians	sharing and	and cuboids using	 From OJS key 	mathematics.
multiples, and	across the world from	grouping using	standard units,	vocabulary for	
prime numbers	different faiths and	knowledge of	including cubic	subject.	
• use their		fractions and	centimeters (cm3)	•	
knowledge of the	cultures.	multiples.	and cubic meters	Wider Offer	





