## **Subject Curriculum Overview**

## **Progression in MATHS**

	Autu	mn	Spi	ring	Sumi	mer
Year	Objectives covered		Objectives covered		Objectives covered	
group	<b>,</b>		•			
Nursery	To know	To know how	To know	To know how	To know	To know how
	Number	Number	Number	Number	Number	Number
	I know the value of	I know how to recognise	I know the value of	I know how to recognise	I know the value of	I know how to recognise
	numbers 1-5.	numbers to 5.	numbers 1-5/10.	numbers to 5/10.	numbers 1-10.	numbers to 10.
	I know different	I know how to develop	I know different	I know how to develop	I know different	I know how to develop
	representations of numbers	fast recognition of up to	representations of	fast recognition of up to	representations of numbers	fast recognition of up to 5
	to 3.	3 objects, without having	numbers to 3/5.	3/5 objects, without	to 5.	objects, without having
	I am beginning to	to count them	I am beginning to	having to count them	I am beginning to	to count them
	understand different	individually ('subitising').	understand different	individually ('subitising').	understand different	individually ('subitising').
	compositions of numbers to	I know how to show	compositions of numbers	I know how to show	compositions of numbers	I know how to show
	5.	'finger numbers' up to 5.	to 5/10.	'finger numbers' up to	to 10.	'finger numbers' up to
		To know how to begin to		5/10.		10.
	Numerical Patterns	attempt to form	Numerical Patterns	To know how to begin to	Numerical Patterns	To know how to begin to
	I know how to find 1 less	numbers 1 to 5.	I know how to find 1 less	attempt to form numbers	I know how to find 1 less	attempt to form numbers
	and 1 more than a number.	I know how to recognise	and 1 more than a	1 to 5.	and 1 more than a number.	1 to 5.
	I know how to add using	numbers to 5.	number.	I know how to recognise	I know how to add using	I know how to recognise
	practical resources.		I know how to add using	numbers to 5/10.	practical resources.	numbers to 10.
	I know how to subtract	Numerical Patterns	practical resources.		I know how to subtract	
	using practical resources.	I know how to join in	I know how to subtract	Numerical Patterns	using practical resources.	Numerical Patterns
	I know how to count using	with a variety of	using practical resources.	I know how to join in with	I know how to count using	I know how to join in with
	1:1 correspondence.	Counting rhymes and	I know how to count using	a variety of Counting	1:1 correspondence.	a variety of Counting
	I know how to use numicon,	songs.	1:1 correspondence.	rhymes and songs.	I know how to use	rhymes and songs.
	five frames or the part	I know how to begin to	I know how to use	I know how to begin to	numicon, five frames or the	I know how to begin to
	whole model to represent	count using 1:1 counting	numicon, five frames or	count using 1:1 counting	part whole model to	count using 1:1 counting
	numbers in different ways.	correspondence up to 5.	the part whole model to	correspondence up to	represent numbers in	correspondence up to 10.
	I know vocabulary related	I know how to count	represent numbers in	5/10.	different ways.	I know how to count
	to addition and subtraction.	actions, objects and	different ways.	I know how to count	I know vocabulary related	actions, objects and
	I know how to order	sounds.	I know vocabulary related	actions, objects and	to addition and subtraction.	sounds.
	numbers to 5.	I know how to count	to addition and	sounds.	I know how to order	I know how to count
		verbally to 5.	subtraction.	I know how to count	numbers to 5.	verbally to 10.
	Shape, Space and Measure	I know how to say one	I know how to order	verbally to 5/10.		I know how to say one
	I know the names of simple	number for each item in	numbers to 5/10.	I know how to say one	Shape, Space and Measure	number for each item in
	2D shapes.	order: 1,2,3,4,5.		number for each item in	I know the names of simple	order to 10.
	I know the names of some	I know how to order	Shape, Space and	order: 1 – 5/10	2D shapes.	I know how to order

3D shapes.

I know specific vocabulary related to capacity, weight and length.

I know some coins and their value.

I know the days of the week.

I know simple language to describe the position of something.

I know that money is used to buy items with

numbers to 5.

I know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').

I know how to link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.

To know their age

To know their age
I know how to respond
to vocabulary of addition
and subtraction in
rhymes and games.
I know how to find 1
more to 5
I know how to find 1 less
to 5
I know how to add under
5 using practical

resources.

resources.

in adding and

subtracting.

## Shape, Space and Measure

I know how to subtract

under 5 using practical

I know how to begin to

use vocabulary involved

I know how to talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles, cuboids. I know how to begin to use informal and

#### Measure

I know the names of simple 2D shapes.
I know the names of some 3D shapes.

I know specific vocabulary related to capacity, weight and length.

I know some coins and their value.

I know the days of the week.

I know simple language to describe the position of something.

I know that money is used to buy items with

I know how to order numbers to 5/10.
I know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). I know how to link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5/10.

To know their age I know how to respond to vocabulary of addition and subtraction in rhymes and games.

I know how to find 1 more to 5/10

I know how to find 1 less to 5/10

I know how to add under 5./10 using practical resources.

I know how to subtract under 5/10 using practical resources.

I know how to begin to use vocabulary involved in adding and subtracting.

## Shape, Space and Measure

I know how to talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles, cuboids. I know how to begin to use informal and I know the names of some 3D shapes.

I know specific vocabulary related to capacity, weight and length.

I know some coins and their value.

I know the days of the week.

I know simple language to describe the position of something.

I know that money is used to buy items with

numbers to 10.
I know that the last
number reached when
counting a small set of
objects tells you how
many there are in total
('cardinal principle').
I know how to link
numerals and amounts:
for example, showing the
right number of objects
to match the numeral, up
to 10.
To know their age

I know how to respond to vocabulary of addition and subtraction in rhymes and games.
I know how to find 1 more to 10

I know how to find 1 less to 10

I know how to add under 10 using practical resources.

I know how to subtract under 10 using practical resources.

I know how to begin to use vocabulary involved in adding and subtracting.

## Shape, Space and Measure

I know how to talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles, cuboids. I know how to begin to use informal and mathematical language:

	recognising and creating simple patterns	patterns	simple patterns
	I know how to	and creating simple	recognising and creating
	as 'first', 'then.	I know how to recognising	I know how to
	events, using words such	as 'first', 'then.	as 'first', 'then.
	describe a sequence of	events, using words such	events, using words such
	I know how to begin to	describe a sequence of	describe a sequence of
	repeating pattern.	I know how to begin to	I know how to begin to
	correct an error in a	repeating pattern.	repeating pattern.
	I know how to notice and	correct an error in a	correct an error in a
	around them.	I know how to notice and	I know how to notice and
	and identify the patterns	around them.	around them.
	I know how to talk about	and identify the patterns	and identify the patterns
	seasons.	I know how to talk about	I know how to talk about
	say the days of the week,	seasons.	seasons.
	I know how to begin to	the days of the week,	say the days of the week,
	and weight	I know how to begin to say	I know how to begin to
	by colour, shape, size	weight	weight
	identify different coins	colour, shape, size and	colour, shape, size and
	I know how to begin to	identify different coins by	identify different coins by
	words related to size.	I know how to begin to	I know how to begin to
	understand and use	related to size.	words related to size.
	I know how to begin to	understand and use words	understand and use
	capacity	I know how to begin to	I know how to begin to
	length, weight and	capacity	capacity
	objects relating to size,	length, weight and	length, weight and
	comparisons between	objects relating to size,	objects relating to size,
	I know how to make	comparisons between	comparisons between
	through words alone	I know how to make	I know how to make
	understand position	alone	through words alone
	I know how to	position through words	understand position
	triangle, rectangle.	I know how to understand	I know how to
	shapes – circle, square,	square, triangle, rectangle.	rectangle.
	recognise simple 2D	simple 2D shapes – circle,	square, triangle,
	To know how to	I know how to recognise	simple 2D shapes – circle,
	'straight', 'flat', 'round'.	'flat', 'round'.	I know how to recognise
	'sides', 'corners';	'sides', 'corners'; 'straight',	'straight', 'flat', 'round'.
	mathematical language:	mathematical language:	'sides', 'corners';

I know how to represent the numbers 1-5 or 1-10 in different ways. I know how to make different compositions for numbers 1-5 or 1-10. I know number bonds to 5.

#### **Numerical Patterns**

I know how to find 1 less and 1 more than a number. I know how to add using practical resources. I know how to subtract using practical resources. I know how to form my numbers correctly. I know how to count using 1:1 correspondence. I know how to use numicon, tens and five frames or the part whole model to represent numbers in different ways. I know some doubles under

I know how to share numbers under 10. I know how to find half a number under 10. I can recognise odd and even numbers.

#### Shape, Space and Measure I know the names of simple

2D shapes. I know the names of some 3D shapes. I know specific vocabulary related to capacity, weight

and length.

correctly. I know how to recognise numbers 1-10. I know how to subitise numbers 1-5 or 1-10. I know how to make finger numbers 1-5 or 1-10.

#### Numerical Patterns I know how to count and

join in with counting rhymes and songs. I know how to count using 1:1 correspondence. I know how to count actions, objects and sounds. I know how to count verbally to and from 20. I know how to recognise numbers to 10. I know how to begin to recognise teen numbers. I know how to form numbers under 5/10 correctly. I know how to count out up to 10 from a group of objects. I know how to order numbers to 10. I know how to find 1 more and 1 less than a number to 10. I know how to add under 10 using practical resources. I know how to subtract under 10 using practical resources.

I know how to represent the numbers 1-10 or 1-15 in different ways. I know how to make different compositions for numbers 1-10 or 1-15. I know number bonds to 5. I am beginning to know number bonds to 10.

#### **Numerical Patterns**

I know how to find 1 less and 1 more than a number. I know how to add using practical resources. I know how to subtract using practical resources. I know how to form my numbers correctly. I know how to count using 1:1 correspondence. I know how to use numicon, tens and five frames or the part whole model to represent numbers in different ways. I know some doubles under 8. I know how to share numbers under 16. I know how to find half a number under 20. I can recognise dd and

#### Shape, Space and Measure

I know the names and properties of 2D shapes rhombus, square, triangle, circle, rectangle, oval,

correctly. I know how to recognise numbers 1-15. I know how to subitise numbers 1-10. I know how to make finger numbers 1-10.

#### **Numerical Patterns** I know how to count and

join in with counting

rhymes and songs. I know how to count using 1:1 correspondence. I know how to count actions, objects and sounds. I know how to count verbally to and from 30. I know how to recognise numbers to 15. I know how to recognise some teen numbers. I know how to from numbers under 10/15 correctly. I know how to count out up to 15 objects from a group. I know how to order numbers to 20. I know how to find 1 more and 1 less than a number to 15. even numbers. I know how to add under 15 using practical resources. I know how to subtract under 15 using practical resources. I know how to begin to

count on to add.

I know how to represent the numbers 1-20 in different ways. I know how to make different compositions for numbers 1-20. I know number bonds to 5. I know number bonds to 10. I am beginning to know

#### **Numerical Patterns**

some number bonds to 20.

I know how to find 1 less and 1 more than a number. I know how to add using practical resources. I know how to subtract using practical resources. I know how to form my numbers correctly. I know how to count using 1:1 correspondence. I know how to use numicon, tens and five frames or the part whole model to represent numbers in different ways. I know some doubles under 10. I know how to share numbers under 20. I know how to find half a

#### Shape, Space and Measure I know the names and

number under 20.

numbers.

properties of 2D shapes rhombus, square, triangle, circle, rectangle, oval,

I know how to recognise numbers 1-20. I know how to subitise numbers 1-20. I know how to make finger numbers 1-10.

#### **Numerical Patterns**

I know how to count and join in with counting rhymes and songs. I know how to count using 1:1 correspondence. I know how to count actions, objects and sounds. I know how to count verbally to and from 40 or beyond. I know how to recognise numbers to 20. I know how to from numbers under 20 correctly. I know how to count out up to 20 objects from a group. I know how to order numbers to 20. I know how to find 1 more and 1 less than a number. I know how to add under 20 using practical I can recognise dd and even resources. I know how to subtract under 20 using practical resources. I know how to count on to add.

I know how to count back

I know some coins and their value. I know how to sequence the day. I know how to tell the time to o'clock. I know specific language to describe the position of something.

# Shape, Space and Measure I know how to describe

some 2D shapes using their properties. I know how to describe some 3D shapes using

their properties.
I know how to estimate and order items by capacity, weight and length.

I know how to add simple amounts of 1p coins.

I know how to use positional language to describe where something is.

I know how to make a simple pattern.

hexagon and pentagon.
I know the names and properties of 3D shapes – cone, cube, cuboid, triangular pyramid, sphere and cylinder.

I know the value of different coins.

I know how to add coins together.

I am beginning to understand how to give change under 5p. I can use specific vocabulary to describe position.

I know specific language to describe capacity, weight, length and height.

I know how to tell the time to o'clock.

I know the different seasons.

I know the days of the week.

I know how to begin to count back to subtract.

## Shape, Space and Measure

I know how to recognise 2D shapes – rhombus, square, triangle, circle, rectangle, oval, hexagon and pentagon. I know how to recognise 3D shapes – cone, cube, cuboid, triangular pyramid, sphere and cvlinder. I know how to describe. and sort 2-D & 3-D shapes and discuss their properties. I know how to estimate. order compare, discuss and explore capacity, weight and lengths I know how to use positional language – on top, next to, beside, behind, in between, underneath, left, right, in front. I know how to recognise different coins. I know how to add simple amounts of 1p's and 2p's. I can begin to give change from 5p. I know how to tell the time to o'clock. I know how to begin to say the time to half past.

I know how to say the

days of the week.

hexagon and pentagon. I know the names and properties of 3D shapes – cone, cube, cuboid, triangular pyramid, sphere and cylinder. I know the value of

different coins.
I know how to add coins together.

I am beginning to understand how to give change under 5p. I can use specific vocabulary to describe position.

I know specific language to describe capacity, weight, length and height.
I know how to tell the time to o'clock.

I know the different seasons.

I know the days of the week.

to subtract.
I know how to solve word problems relating to addition and subtraction.
I know how to solve missing number problems.

## Shape, Space and Measure

I know how to recognise 2D shapes – rhombus, square, triangle, circle, rectangle, oval, hexagon and pentagon. I know how to recognise 3D shapes – cone, cube, cuboid, triangular pyramid, sphere and cvlinder. I know how to describe, and sort 2-D & 3-D shapes and discuss their properties. I know how to estimate. order compare, discuss and explore capacity, weight and lengths I know how to use positional language – on top, next to, beside, behind, in between, underneath, left, right, in front. I know how to recognise different coins. I know how to add simple amounts of 1p's and 2p's. I know how to begin to give change from 5p. I know how to tell the

		I know how to name the seasons. I know how to recognise and create simple and more complex patterns.	time to o'clock.  I know how to begin to say the time to half past.  I know how to say the days of the week.  I know how to name the seasons.  I know how to recognise and create simple and more complex patterns.  I know how to solve word problems relating to time.
One	To know how	To know how	To know how
	Number Counting to and across 50 Read/write to 10 in numerals and words	Number Counting to and across 100 Read/write to 20 in numerals and words	Number Counting to and across 100 Read/write to 20 in numerals and words
	Mental skills Count in multiples of 2 and 10	Mental skills Count in multiplies of 2 and 10	Counting problems/explaining Mental skills
	Number bonds to 10 Halving and doubling to 10	Number bonds to 20 One more one less to 50	Count in multiples of 2, 5 and 10 Number bonds to 20
	Place value to TU Ordering numbers to 20	Halving a doubling beyond 10 Place value to TU	One more one less to 100 Halving and doubling beyond 10
	Addition - 1 and 2 digits numbers to 20 Subtraction - 1 and 2 digits numbers to 20	Ordering numbers to 50 Estimating	Rounding to nearest 10. Place value to TU
	One step problems 2 and 10 arrays – times tables	Addition with bridging - 1 and 2 digits numbers to 20 Subtraction with bridging - 1 and 2 digits numbers to 20	Ordering numbers to 50 Estimating
	Multiplication using practical manipulatives  Division using practical manipulatives	One step word problems  Multiplication using practical manipulatives and arrays	Addition with bridging - 1 and 2 digits numbers to 20 Subtraction with bridging - 1 and 2 digits numbers to 20
	Fractions – ½  Measure	Division using practical manipulatives and arrays Fractions ½ and ¼	Missing number problems One step word problems – now including doubling and
	Money works – coins and their value Measuring – length, weight, capacity	Measure  Money work – coins, change, mentally and solving	halving Recall 2 and 10 tables securely
	Time – days of the week / months of the year Time – o'clock and half past	puzzles.  Measuring – length, weight capacity	Multiplication using practical manipulatives and arrays Division using practical manipulatives and arrays
	Geometry	Time – order days of week, months, know seasons Time – o'clock and half past	Multiplication and division word problems Fractions ¼, 2/4 ¾
	Common 2D shapes	Geometry	Measure
	Position of objects  Data – lists and tables simple – pictograms.	Common 2D and 3D shapes Position and direction whole, half, quarter turns Data - simple charts and block graphs	Money work – coins, change, problems, grouping, adding.  Measuring – length, weigh and capacity – begin to measure using a ruler in cm

		4 operations sessions Basic skills tests stage 1	Time – days of the week, months of the year, seasons, min in an hour, hour in a day.  Time 0 o'clock and half past and drawing on hands  Geometry  Folding shapes – symmetry  Position and direction – moving ¼ turns  Data - Record information in table, chart, block graph and pictograms  Data – interpret data  Data - Use ICT to represent information
<b>T</b>	T- brown born	To be some born	Basic skills tests stage 1
Two	To know how Number	To know how Number	To know how Number
	Use mental strategies Counting in both directions 10 more and 10 less 2 5 and 10 times tables Number bonds to 50 and 100 Doubling and corresponding halves and derive near doubles. Odd and even to 100 Place value to TU and recognise HTU Compare numbers in both directions to 100 Use < > and = signs Estimating numbers Addition - using commutative law TU + U Subtraction TU- U Missing number problems add/subtract Word problems one step Multiplication UXU Division TU/U Use all symbols for multiplication and division and other	Use mental strategies Counting in both directions Numbers in numerals and words to 100 and beyond 10 more and 10 less 2 5 and 10 tables and multiples of 5 and 10 Doubling and halving and near doubles Recognise any odd or even Place value to TU and partition – recognise HTU Compare numbers in both directions to 100 Use < > and = Identify and estimate in different forms Rounding TU to nearest 10 Addition TU + TU Subtraction TU-TU Use related facts to work out answers Adjusting by 1 (adding 10) Word problems with 2 steps inc numbers, quantities and measures Inverse relationship	Use mental strategies Counting in both directions Numbers in numerals and words to 100 and beyond Recognise multiples of five 2 5 and 10 tables and recognise multiples of 3 Doubling and halving and near doubles Recognise odd and even numbers Begin to read 3 digit numbers Compare numbers in both directions to 100 Use <> and = Identify and estimate in different forms Rounding TU to nearest 10 Addition TU + TU Subtraction TU - TU Use related facts to work out answers Adjusting by 1 (adding 20) Bridging through multiplies of 10 Word problems 2 steps, inc numbers, quantities and measures
	related vocab Missing number problems mult/div ½ and ¼ of objects, shapes and values Equivalent fractions – simple Write 1/3 ¼ ½ ¾ fractions  Measure  Money – all coin recognition, £ p, different combinations, totals and change, problems	Estimating answers Multiplication UX U and TU X U Division TU / U Use all symbols for multiplication and division and other related vocab. Missing number problems ½ and ¼ of objects, shapes and values Equivalent fractions – simple	Inverse relationships Estimating answers Multiplication UX U and TU X U Division TU/U Use all symbols for multiplication and division and other related vocab. Multi operation word problems Missing number problems

Measure – estimate and measure – length height, temp, capacity using equipment Compare and use symbols Measure to nearest cm Time – read to 5 mins and ½ past etc Use units of time e.g. seconds  Geometry Shape – identify properties 2D shapes Properties of some 3D shapes Compare and sort shapes Describe position, direction and movement Right angles – quarter – clockwise and anti-clockwise Present data - Use ICT Pictograms, tally charts, block diagrams, tables  4 operations sessions Basic skills tests stage 2	Write 1/3 ¼ ½ ¾ fractions Reading scales and division on a scale to 25  Measure  Money – all coin recognition, £ p and different representations, totals and change, problems Measure – estimate and measure – length height, temp, capacity using equipment Compare and use symbols with measurements Measure to nearest cm Time – read to 5 mins and ¼ past etc and draw hands on the clocks. Use units of time e.g. seconds  Geometry  Follow and give instructions involving position, direction and movement. Arrange mathematical objects in patterns and sequences Properties of 2D and 3D shapes Use whole, half and quarter turns – clockwise and anticlockwise Describe position, direction and movement Present data - Use ICT Pictograms, tally charts, block diagrams, tables	½ and ¼ of objects, shapes and values Equivalent fractions – simple Write 1/3 ¼ ½ ¾ fractions Reading scales and division on a scale to 25  Measure  Money – all coin recognition, £ p and different representations, totals and change, problems Measure – estimate and measure – length height, temp, capacity using equipment Compare and use symbols with measurements Measure to nearest cm Calculate time intervals Time – read to 5 mins and ¼ past etc and draw hands on the clocks. Use units of time e.g. seconds  Geometry Properties of 2D and 3D shapes Identify shapes in diff orientations Identify reflective symmetry Draw lines of symmetry Describe position, direction and movement Arrange mathematical objects in patterns and sequences Use whole, half and quarter turns – clockwise and anti-
	4 operations sessions Basic skills tests stage 2	Comparing data Present data - Use ICT Pictograms, tally charts, block diagrams, tables  4 operations sessions Basic skills tests stage 2
Three To know how	To know how	To know how
Number	Number	Number
Use mental strategies	Use mental strategies	Use mental strategies
Counting both directions and multiples and tenths Counting multiples 2, 3, 5 and 10	Counting both directions and multiples and tenths Counting in multiples 4 8 50 and 100	Counting both directions and multiples and tenths Counting in multiples 4 8 50 and 100
Write numbers as numerals and words to 1000	Write numbers as numerals and words to 1000	Write numbers as numerals and words to 1000
10 and 100 more or less	AALITE HAITINGS as HAITIGIAIS AND MOLAS TO TOOL	
10 and 100 more or less	Add/sub combinations TII mentally	Odd and even beyond 100
Adding / sub mental using near doubles	Add/sub combinations TU mentally  Recall pairs / multiples of 100 to 1000	Odd and even beyond 100  Recognise multiplies of 2 3 4 5 8 10 up to 100
Adding / sub mental using near doubles Tables 3 4 and 8	Add/sub combinations TU mentally Recall pairs / multiples of 100 to 1000 Compare and order to at least 1000	Odd and even beyond 100  Recognise multiplies of 2, 3, 4, 5, 8, 10 up to 100  Tables 2, 3, 4, 5, 8 and 10

Compare and order to 1000

Rounding to 10

Addition methods and mental with 2 and 3 digits Subtraction methods and mental with 2 and 3

digits

Solve problems – using facts of addition and subtraction

Calculate missing numbers – add/sub

Word problems 1 and 2 step - add/sub

Estimating answers

Inverse checking

Represent calculations as images and diagrams

Multiplication TU by U

Division TU by U

Understand inverse of multiplication and division

Use commutative law

Explain method choices.

Calculate missing numbers for division and

multiplication

Use multiple visual representations and diagrams

Recognise tenths / 10 equal parts

Read and write fractions 3/6 8/10 etc

Know what the numerator and denominator are

Fractions of shapes

Estimate fractions of shapes

Recognise unit and non-unit fractions of objects /

shapes

Fractions of quantities

Show fractions through diagrams

Add/subtract fractions same denominator

Compare and order unit fractions and with same

denominator.

Solve problems with fractions

#### Measure

Add and subtract money

One and two step problems with money

Measure compare add subtract length /mass /volume

Estimate record measurements - mm cm m km

Measure perimeter 2d shapes

Time – reading and drawing hands to nearest minute

Time using roman numerals

Compare time

Estimate time

Recognise multiplies of 2, 3, 4, 5, 8, 10 up to 100

Tables 2, 3, 4, 5, 8 and 10

Place value HTU

Rounding to 10 and 100 (TU and HTU)

Multiplying U and TU by 10 and 100 – place value

Work out patterns in number sequences

Addition methods and mental up to 3 digits

Subtraction methods and mental up to 3 digits

Solve problems – use facts of addition and subtraction

Calculate missing numbers – add/sub

Word problems 1 and 2 step - add/sub

Estimating answers

Inverse checking

Represent calculations as images and diagrams

Multiplication TU by U

Division TU by U

Understand inverse of multiplication and division

Calculate missing numbers for division and

multiplication

Explain method choices

Use commutative law

Read and write fractions 3/6 8/10 etc

Know the numerator and denominator

Fractions of shapes

Estimate fractions of shapes

Recognise unit and non-unit fractions of objects /

shapes

Fractions of quantities

Show fractions through diagrams

Add/subtract fractions same denominator

Compare and order unit fractions and with same

denominator.

Solve problems with fractions

### Measure

Add and subtract money

1 and 2 step problems involving money

Measure compare add subtract length /mass /volume

Read scales to nearest division / half division

Estimate and record measurements – mm cm m km

Measure perimeter around a shape/calculate

Use scales partially numbers

Estimate and read time – accuracy

Derive doubles and halves of multiplies of 5 to 100 and

50 to 500

Multiplying U and TU by 10 and 100

Place value HTU

Partition numbers in different ways

Identify and represent numbers differently

Rounding to 10 and 100 (TU and HTU)

Solve problems involving place value

Addition methods and mental up to 3 digits

Subtraction methods and mental up to 3 digits

Use near multiples to add/sub

Finding differences

Solve problems – use facts of addition and subtraction

Calculate missing numbers – add/sub

Word problems 1 and 2 step - add/sub

Estimating answers

Inverse checking

Multiplication TU by U

Division TU by U

Understand inverse of multiplication and division

Calculate missing numbers for division and

multiplication

Explain method choices

Read and write proper fractions

Fractions of shapes

Estimate fractions of shapes

Unit fractions of shapes / quantities

Non-unit fractions of shapes / quantities

Add/subtract fractions same denominator

Compare and order unit fractions and with same

denominator.

Solve problems with fractions

#### Measure

Add and subtract money

1 and 2 step problems involving money

Know relationships between measures e.g. L to ml

Use decimal notation in measurements

Measure compare add subtract length /mass /volume

Read scales to nearest division / half division

Estimate and record measurements – mm cm km

Measure perimeter around a shape/calculate

Use scales partially numbered

Calculate time differences Tel	ell and write the time in figures and roman numerals	Estimate and read time – accuracy
	ompare durations	Tell and write the time in figures and roman numerals
Draw 2d shapes	Geometry	Fluent in using 12 hour clock
Make 3d shapes Dra	raw 2d shapes	Compare durations
·	lake 3d shapes	Geometry
	ecognise properties and use accurate language	Draw 2d shapes
	raw and complete shapes – symmetry	Make 3d shapes
	se 4 compass points for direction	Recognise properties and use accurate language
	onnect decimals and rounding to drawing points on a	Draw and complete shapes – symmetry
· ·	ne in cm	Use 4 compass points for direction
	olve shape / pattern problems	Connect decimals and rounding to drawing points on a
	entify right angles and turns / half turns	line in cm
<u> </u>	reater or less than 90 degrees	Solve shape / pattern problems
	raw shapes with right angles	Angles in different contexts – acute, right and obtuse
	ecognise horizontal/vertical/ parallel and	angles
	erpendicular lines	Identify right angles and turns / half turns
	blve problems with data	Greater or less than 90 degrees
	raw data in all forms — pictograms, bar charts, venn	Draw shapes with right angles
	nd carroll	Recognise horizontal/vertical/ parallel and
·	terpret data	perpendicular lines
_	se simple scales in data	Investigate and reason with shapes
	se venn and carroll diagrams	Collect, organise and interpret data
	C	Solve one and two step questions with data
		Use venn and carroll diagrams
		Š
40	operations sessions	
	asic skills tests stage 3	4 operations sessions
	6	Basic skills tests stage 3
Four To know how	To know how	To know how
Number	Number	Number
Use mental strategies Use	se mental strategies	Mental strategies
Counting in both directions multiples and hundredths Cou	ounting in both directions multiples and hundredths	Counting in both directions multiples and hundredths
Count in multiples of 6, 7, 9, 25 and 1000 and	nd unit fractions	and unit fractions
Write numbers as numerals and words to 10000 Cou	ount in multiples of 6, 7, 9, 25 and 1000	Count in multiples of 6, 7, 9, 25 and 1000
10, 100 and 1000 more or less Wr	rite numbers as numerals and words to 10000	Write numbers as numerals and words to 10000
Adding / sub mental using near doubles 0.1	1, 1, 10, 100 and 1000 more or less	0.1, 1, 10, 100 and 1000 more or less
Recap Tables 3 4 and 8 Cou	ount through 0 and negative numbers	Count through 0 and negative numbers
Count through 0 and negative numbers Tab	ables to 12 x 12	Tables to 12 x 12
Tables to 12 x 12 – revision of 2, 3, 4, 5, 6 and 10 start Mu	lultiply and divide by 0, 1, 10 and 100 – whole numbers	Multiply and divide by 0, 1, 10 and 100 – whole numbers
		Identify doubles of 2 digit numbers
with 9	entify doubles of 2 digit numbers	identity doubles of 2 digit fidilibers
	dd near doubles	Add near doubles

Odd and even to 1000 and properties

Place value ThHTU

Compare and order numbers to and past 1000 Compare and order numbers to 2 decimal places

Estimate – representations

Round to 10, 100 or 1000

Round 1 decimal place to whole

Positive and negative numbers

Addition methods and mental up to 4 digits

Subtraction methods and mental up to 4 digits

Solve problems – using facts of add/sub

Calculate missing numbers – add/sub

Word problems 1 and 2 step including money and

decimals - add/sub

Estimating answers – use rounding

Inverse checking

Represent calculations as images and diagrams

Multiplication TU by U

Division TU by U

Mental multiplication using facts

Use factor pairs
Commutative law

Distributive law

Associative law

Problem solving and reasoning

Inverse operations

Calculate missing numbers – mult/div

Two step word problems – appropriate operations.

Fraction whole numbers divided by another

Equivalent fractions – diagrams

Interpret mixed numbers

Compare and order fractions – same denominator

Recognised hundredth /100 and tenths /10  $\,$ 

Add and subtract fractions same denominator

Recognise and write decimal equivalents of 10<sup>ths</sup> 100<sup>ths</sup>

Recognise and write decimal equivalents of 1/4 1/2 3/4

#### Measure

Convert between measurements – length, weight, capacity

Know ½ ¼ ¾ 1/10 of measures Perimeter – formula (a+b)x2

Area – counting squares – arrays

Recognise and use factor pairs

Place value ThHTU

Compare and order numbers to and past 1000

Compare and order numbers to 2 decimal places

Recognise and continue number sequences

Roman numerals to 100

Estimate proportion – fraction

Estimate – representations

Round to 10, 100 or 1000

Round 1 decimal place to whole

Positive and negative numbers

Addition methods and mental up to 4 digits

Subtraction methods and mental up to 4 digits

Solve problems – using facts of add/sub

Calculate missing numbers – add/sub

Word problems 1 and 2 step including money and

decimals

Estimating answers – use rounding

Inverse checking

Represent calculations as images and diagrams and with

reasons

Multiplication TU and HTU by U

Division TU and HTU by U

Mental multiplication using facts

Commutative law

Distributive law

Associative law

Problem solving and reasoning

Inverse operations

Calculate missing numbers – mult/div

Two step word problems – appropriate operations.

Equivalent fractions – diagrams

Interpret mixed numbers

Compare and order fractions – same denominator

Recognised hundredth /100 and tenths /10

Add and subtract fractions same denominator

Recognise and write decimal equivalents of  $10^{\text{ths}}\,100^{\text{ths}}$ 

Recognise and write decimal equivalents of ½ ½ ¾ Solve simple and harder problems – fractions

Use ratio and proportion between 2 quantities

Estimate a proportion

Measure

Recognise and use factor pairs

Odd and even to 1000 and properties

Place value ThHTU

Compare and order numbers to and past 1000

Compare and order numbers to 2 decimal places

Estimate – representations

Round to 10, 100 or 1000

Round 1 decimal place to whole

Positive and negative numbers

Recognise and continue number sequences

Roman numerals to 100

Estimate proportion – fraction

Estimate – representations

Addition methods and mental up to 4 digits

Subtraction methods and mental up to 4 digits

Solve problems – using facts

Calculate missing numbers – add/sub

Word problems 1 and 2 step including money and

decimals

Estimating answers – use rounding

Inverse checking

Represent calculations as images and diagrams and with

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Multiplication TU and HTU by U

Division TU and HTU by U

Mental multiplication using facts

Commutative law

Distributive law

Associative law

Problem solving and reasoning

Inverse operations

Calculate missing numbers – mult/div

Two step word problems – appropriate operations.

Equivalent fractions – diagrams

Interpret mixed numbers

Compare and order fractions – same denominator

Recognised hundredth /100 and tenths /10

Add and subtract fractions same denominator

Recognise and write decimal equivalents of 10ths 100ths

Recognise and write decimal equivalents of 1/4 1/2 3/4

Solve simple and harder problems – fractions

Use ratio and proportion between 2 quantities

	Estimate and compare measures	Convert between measurements – length, weight,	Measure
	Read time to nearest minute	capacity	Convert between measurements – length, weight,
	Calculate time intervals	Know ½ ¼ ¾ 1/10 of measures	capacity
	Read timetables	Perimeter – formula (a+b)x2	Know ½ ¼ ¾ 1/10 of measures
	Convert time analogue and digital	Area – counting squares – arrays	Perimeter – formula (a+b)x2
	Solve problems involving time	Estimate and compare measures	Area – counting squares – arrays
	Geometry	Interpret intervals on scales	Estimate and compare measures
	Compare and classify shapes inc quadrilaterals	Read time to nearest minute	Interpret intervals on scales
	Understand the terms regular and irregular and identify	Calculate time intervals	Read time to nearest minute
	the shapes	Read timetables	Calculate time intervals
	Symmetry 2d shapes in orientations	Convert time – analogue and digital	Read timetables
	Symmetry in patterns/ diagrams	Solve problems involving time	Convert time – analogue and digital
	Identify different nets of solids	Geometry	Solve problems involving time
	Compare and order angles by size	Compare and classify shapes inc quadrilaterals	Geometry
	Use/identify acute, obtuse and right angles	Understand the terms regular and irregular and identify	Compare and classify shapes inc quadrilaterals
	Draw axes in one quadrant – equal scales	the shapes	Understand the terms regular and irregular and identify
	Describe coordinates in one quadrant	Symmetry 2d shapes in orientations	the shapes
	Plot coordinates	Symmetry in patterns/ diagrams	Symmetry 2d shapes in orientations
	Plot coordinates to complete a polygon	Identify different nets of solids	Symmetry in patterns/ diagrams
	Describe movement – position and translation	Compare and order angles by size	Nets of solids
	Recognise horizontal and vertical lines	Use acute, obtuse and right angles – and identify	Compare and order angles by size
	Use 8 points of a compass	Investigate statements of shapes	Draw axes in one quadrant – equal scales
	Interpret data – different charts	Draw axes in one quadrant – equal scales	Describe coordinates in one quadrant
	Solve comparison, sum and difference problems	Describe coordinates in one quadrant	Plot coordinates
	Use scales in graphs and representations	Plot coordinates	Plot coordinates to complete a polygon
	Problems as number sentences, statements diagrams	Plot coordinates to complete a polygon	Describe movement – position and translation
	Report solutions to puzzles	Describe movement – position and translation	Interpret data – different charts including line graphs
	Use a calculator to carry out 1 and 2 step problems	Recognise horizontal and vertical lines	Solve comparison, sum and difference problems
	Correct mistakes	Interpret data – different charts including line graphs	Problems as number sentences, statements, diagrams
	Explain and record methods.	Solve comparison, sum and difference problems	Report solutions to puzzles
		Use scales in graphs and representations	Use a calculator to carry out 1 and 2 step problems
		Problems as number sentences, statements, diagrams	Correct mistakes
		Report solutions to puzzles	Explain and record methods
		Use a calculator to carry out 1 and 2 step problems	
	4 operations sessions	Correct mistakes	
	Basic skills tests stage 4	Explain and record methods	4 operations sessions
			Basic skills tests stage 4
		4 operations sessions	
		Basic skills tests stage 4	
Five	To know how	To know how	To know how
	Number	Number	Number

Use mental strategies

Counting both direction inc through 0, powers of 10 up to 100.000 and decimals

Interpret negative numbers

Read, write order to at least 1,000,000

Multiply and divide mentally using facts and tables

Multiply divide by 10, 100, 1000 inc decimals

Use square and cube numbers

Double/halve to 100

Recognise and extend number sequences

Read, write, compare and order to 1 and 3 decimals Round to nearest 10, 100, 1000 and 10000 to 1,000,000

Round decimals with 2 dp to whole and 1dp

Solve problems with above

Read and write roman numerals to 1000

Addition methods and mental more than 4 digits

Subtraction methods and mental more than 4 digits

Use rounding to check answers

Calculate missing numbers – add/sub

Inverse checking

Multi-step word problems with conversions inc

decimals and money

Identify multiples and factors

Prime numbers

Prime factors

Common factors

Multiply 4 digits by 1 or 2 digits

Divide up to 4 digits by 1 digit

Solve problems inv multiplication and division

Solve problems invall operations

Problems inv scaling by fractions of multiples of same

number

Identify, name, compare and order fractions with

denominators and write equivalent fractions – inc

tenths and hundredth

Convert mixed numbers and improper fractions

Fractions of quantities – division

Percentages % - of amounts

Add / sub fractions with different denominators

Multiply proper fractions

Read and write decimals as fractions Problems involving decimals to 3dp Use mental strategies

Counting both direction inc through 0, powers of 10 up

to 100,000 and decimals and fractions

Interpret negative numbers

Read, write order to at least 1,000,000

Add and subtract mentally – larger numbers

Multiply and divide mentally using facts and tables

Doubling to multiply by 4

Halve any 2 digit number

Multiplication to 12 x 12 and division facts

Multiply divide by 10, 100, 1000 inc decimals

Use near multiples to work out answers

Read, write, compare and order to 1 and 3 decimals

Round to nearest 10, 100, 1000 and 10000 to 1,000,000

Round decimals with 2 dp to whole and 1dp

Solve problems with above

Read and write roman numerals to 1000

Revise symbols

Addition methods and mental more than 4 digits

Subtraction methods and mental more than 4 digits

Use rounding to check answers

Calculate missing numbers – add/sub

Inverse checking

Multi-step word problems with conversions inc

decimals and money

Begin to use brackets

Identify multiples and factors

Prime numbers

Prime factors

Common factors

Multiply 4 digits by 1 or 2 digits

Divide up to 4 digits by 1 digit

Use square and cube numbers

Solve problems inv multiplication and division

Solve problems invall operations

Problems inv scaling by fractions

Represent problems and puzzles

Use knowledge to estimate and check answers e.g

inverse

Identify, name, compare and order fractions with

denominators and write equivalent fractions – inc

tenths and hundredth

Use mental strategies

Counting both direction inc through 0, powers of 10 up

to 100,000 and decimals and fractions

Interpret negative numbers

Read, write order to at least 1,000,000

Add and subtract mentally – larger numbers

Multiply and divide mentally using facts and tables

Doubling to multiply by 4

Halve any 2 digit number

Multiplication to 12 x 12 and division facts

Multiply divide by 10, 100, 1000 inc decimals

Explain digit representations into decimals

Partition numbers to 1 million

Read, write and compare to 1 million

Round decimals to nearest whole

Read and write roman numerals to 1000

Calculate temperature rise or fall across 0

Addition methods and mental more than 4 digits

Subtraction methods and mental more than 4 digits

Use rounding to check answers

Calculate missing numbers – add/sub

Inverse checking

Multi-step word problems with conversions inc

decimals and money

Represent puzzles or problems

Explore patterns, properties and relationships

Know and apply tests of divisibility 2, 4, 5, 10 or 100

Make and investigate statements about numbers

Use empty number line to calculate change

Converting money

Identify multiples and factors

Prime numbers

Prime factors

Common factors

Multiply 4 digits by 1 or 2 digits

Divide up to 4 digits by 1 digit

Use square and cube numbers

Solve problems inv multiplication and division

Round answers up or down depending on context

Solve problems invall operations

Problems inv scaling by fractions

Represent problems and puzzles

Read and write % as fractions and decimals Problems inv % and decimals and fractions

#### Measures

Convert between metric measures
Estimate volume and capacity
Interpret scales with two unnumbered intervals
Perimeter of composite rectilinear shapes
Measure and draw lines to nearest mm

Area - inc w x h = a

Read write and convert time between 12 and 24 hr Problems involving converting time Complete, read and interpret tables and time tables

#### Geometry

Identify 3d from 2d shapes
Identify, visualise and describe shape properties
Read and plot coordinates in one quadrant
Parallel and perpendicular lines
Complete patterns 2 lines of symmetry

Reflection

Translation
Estimate angles including reflex
Compare angles including reflex
Draw given angles including reflex
Measure angles – protractor – inc reflex
Use turns and 90 degrees to identify angles
Missing lengths and angle problems
Regular and irregular polygon from properties
Solve comparison sum and difference problems in graphs

4 operations sessions Basic skills tests stage 5 Order fractions inc mixed numbers

Convert mixed numbers and improper fractions

Fractions of quantities – division

Percentages % - of amounts

Add / sub fractions with different denominators

Multiply proper fractions

Read and write decimals as fractions

Problems involving decimals to 3dp

Read and write % as fractions and decimals

Problems inv % and decimals and fractions

#### Measures

Convert between metric measures Know metric and imperial measures Perimeter of composite rectilinear shapes

Area - inc w x h = a

Estimate volume

Problems involving measure

Read write and convert time between 12 and 24 hr

Problems involving converting time

Complete, read and interpret tables and time tables

#### Geometry

Identify 3d from 2d shapes

Identify, visualise and describe shape properties

Measure line to nearest mm

Estimate angles including reflex

Measure angles including reflex

Draw given angles including reflex

Use turns and 90 degrees to identify angles

Regular and irregular polygon from properties

Read and plot coordinates in one quadrant

Reflection

Translation

Construct frequency tables – plot graphs

Solve comparison sum and difference problems inc graphs

арпз

Complete and read time tables

Mode of data

Plan and pursue and enquiry - present evidence

Interpret data – answer questions

4 operations sessions

Use knowledge to estimate and check answers e.g inverse

Explain reasoning

Explore patterns and puzzles in diagrams

Identify, name, compare and order fractions with denominators and write equivalent fractions – inc

tenths and hundredth

Convert mixed numbers and improper fractions

Fractions of quantities – division

Percentages % - of amounts

Add / sub fractions with different denominators

Multiply proper fractions and mixed numbers

Use sequences to scale numbers up/down

Read write and order decimals to 3dp

% - read write and equivalents

#### Measures

Read, choose and use standard metric units

Measure length

Convert larger to smaller units to 1dp

Convert between metric measures

Use approx. equivalences metric and imperial

Perimeter of composite rectilinear shapes

Area - use  $w \times h = a$ 

Measure to nearest mm

Estimate volume

Read write and convert time between 12 and 24 hr

Problems involving converting time

Complete, read and interpret tables and time tables

#### Geometry

Identify 3d from 2d shapes

Estimate and compare angles including reflex

Draw given angles - including reflex

Measure angles - including reflex

Calculate missing angles

Angles in triangles and rectangles

Use turns and 90 degrees to identify angles

Regular and irregular polygon from properties

Read and plot coordinates in one quadrant

Reflection

Translation

Make and investigate statements of shapes

Complete patterns up to 2 lines of symmetry

		Basic skills tests stage 5	Construct frequency tables – plot graphs
		, and the second	Solve comparison sum and difference problems in
			graphs
			Complete and read time tables
			Mode of data
			Interpret graphs and chrts
			4 operations sessions
			Basic skills tests stage 5
Six	To know how	To know how	To know how
	Number	Number	Number
	Use mental strategies	Use mental strategies	Use mental strategies
	Read, write and compare number to 10,000,000	Read, write and compare number to 10,000,000	Read, write and compare number to 10,000,000
	Round any whole number and up to 2 dp	Round any whole number and up to 2dp	Round any whole number and up to 2dp
	Multiply divide by 10, 100 and 1000 to 3dp	Multiply divide by 10, 100 and 1000 to 3dp	Multiply divide by 10, 100 and 1000 to 3dp
	Use negative numbers and calculate intervals across 0	Use negative numbers and calculate intervals across 0	Use negative numbers and calculate intervals across 0
	Solve problems	Solve problems	Solve problems
	Addition recap	Addition recap	Addition recap
	Subtraction recap	Subtraction recap	Subtraction recap
	Multiply 4 digits by 2 digits	Multiply 4 digits by 2 digits	Multiply 4 digits by 2 digits
	Long division	Long division	Long division
	Division up to 4 digit by 2 digit	Division up to 4 digit by 2 digit	Division upto 4 digit by 2 digit
	Interpret remainders as whole numbers, fractions and	Interpret remainders as whole numbers, fractions and	Interpret remainders as whole numbers, fractions and
	decimals	decimals	decimals
	Identify common factors, common multiples and prime	Identify common factors, common multiples and prime	Identify common factors, common multiples and prime
	numbers	numbers	numbers
	Calculations involving all operations	Calculations involving all operations	Calculations involving all operations
	Multi-step problems 4 operations	Multi-step problems 4 operations	Multi-step problems 4 operations
	Estimation to check answers	Estimation to check answers	Estimation to check answers
	Simplify fractions	Simplify fractions	Simplify fractions
	Compare and order fractions	Compare and order fractions	Compare and order fractions
	Add and subtract fraction with different denominators	Add and subtract fraction with different denominator	Add and subtract fraction with different denominators
	and mixed numbers	and mixed numbers	and mixed numbers
	Multiply proper fractions	Multiply proper fractions	Multiply proper fractions
	Divide proper fractions by whole numbers	Divide proper fractions by whole numbers	Divide proper fractions by whole numbers
	Fraction, % and decimal equivalents	Fraction, % and decimal equivalents	Fraction, % and decimal equivalents
	Decimal multiplication	Decimal multiplication	Decimal multiplication
	Problems with answers rounded	Problems with answers rounded	Problems with answers rounded
	Problems involving relative size of 2 quantities – missing	Problems involving relative size of 2 quantities – missing	Problems involving relative size of 2 quantities – missing
	values calc using integer multi and div	values calc using integer multi and div	values calc using integer multi and div
	Problems involving % of quantities	Problems involving % of quantities	Problems involving % of quantities

Problems involving unequal grouping
Problems inv conversion of units
Converting measures to 3dp
Recognise that shapes of the same area can have different perimeters
Use formula for are and volume

Area of parallelogram
Area of triangles

Calculate, estimate and compare volume of cubes and cuboids

#### Algebra

Use simple formula

Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy equations Enumerate possibilities of combinations of 2 variables

#### Geometry

Draw 2d – dimensions and angles
Build 3d shapes and nets
Classify shapes
Radius, diameter and circumference
Missing angles – use knowledge of opposites and

straight lines to calculate angles.
Use 4 quadrants for coordinates
Draw and translate simple shapes

Reflect shapes in the axes Pie charts and line graphs Mean

4 operations sessions Basic skills tests stage 6 Problems involving unequal grouping Problems inv conversion of units Converting measures to 3dp

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Missing angles – use knowledge of opposites and

straight lines to calculate angles. Use 4 quadrants for coordinates Draw and translate simple shapes Reflect shapes in the axes

Pie charts and line graphs

Mean

4 operations sessions Basic skills tests stage 6 Problems involving unequal grouping
Problems inv conversion of units

Converting measures to 3dp

Recognise that shapes of the same area can have

different perimeters

Use formula for are and volume

Area of parallelogram

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Calculate, estimate and compare volume of cubes and cuboids

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Mean

4 operations sessions Basic skills tests stage 6