

everyday objects



including movement in a straight line and

distinguishing between rotation as a turn

and in terms of right angles for quarter, half

#### YEAR 2 MATHS PROGRESSION IN SKILLS (N.C. COVERAGE) AND KNOWLEDGE STATUTORY REQUIREMENTS

AUTUMN	SPRING	SUMMER SUMMER TERM:	
AUTUMN 1:	SPRING TERM:		
NUMBER – NUMBER AND PLACE VALUE	MEASURE - MONEY	STATISTICS	
<ul> <li>Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number (Year 1)</li> <li>Recognise the place value of each digit in a two-</li> </ul>	<ul> <li>Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</li> <li>Find different combinations of coins that equal</li> </ul>	<ul> <li>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables</li> <li>Ask and answer simple questions by</li> </ul>	
<ul> <li>digit number (tens, ones)</li> <li>Identify, represent and estimate numbers using different representations, including the number</li> </ul>	the same amounts of money  Solve simple problems in a practical context involving addition and subtraction of money of	counting the number of objects in each category and sorting the categories by quantity	
line  ➤ compare and order numbers from 0 up to 100; use	the same unit, including giving change  NUMBER - MULTIPLICATION AND DIVISION	<ul> <li>Ask and answer questions about totalling and comparing categorical data</li> </ul>	
<ul> <li>and = signs</li> <li>Count in steps of 2, 3, and 5 from 0, and in 10s</li> <li>from any number, forward and backward</li> </ul>	<ul> <li>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and</li> </ul>	FRACTIONS  ➤ (Year 1) recognise, find and name a half as one of two equal parts of an object, shape	
NUMBER – ADDITION AND SUBTRACTION	division facts, including problems in contexts	or quantity	
<ul> <li>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</li> </ul>	<ul> <li>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the</li> </ul>	<ul> <li>Recognise, find, name and write fractions</li> <li>1/3, 1/4, 2/4 and 3/4 of a length, shape,</li> <li>set of objects or quantity</li> </ul>	
Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones	multiplication (×), division (÷) and equals (=) signs  Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including	<ul> <li>Write simple fractions for example, 1/2 of 6</li> <li>= 3 and recognise the equivalence of 2/4</li> <li>and ½</li> </ul>	
Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward	recognising odd and even numbers  MEASURE – LENGTH AND HEIGHT	Non-statutory guidance: Pupils should count in fractions up to 10, starting from	
<ul> <li>Solve problems with addition and subtraction:</li> <li>using concrete objects and pictorial</li> <li>representations, including those involving</li> </ul>	<ul> <li>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C);</li> </ul>	any number and using the 1/2 and 2/4 equivalence on the number line (for example, 1 1/4, 1 2/4 (or 1 1/2), 1 3/4, 2)	
numbers, quantities and measures  GEOMETRY – PROPERTIES OF SHAPE	capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and	GEOMETRY -POSITION AND DIRECTION  ➤ Use mathematical vocabulary to describe	
Compare and sort common 2D and 3D shapes and	measuring vessels	position, direction and movement,	

> Compare and order lengths, mass,

and =

volume/capacity and record the results using >, <







- Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line
- Compare and sort common 2-D and 3-D shapes and everyday objects
- Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces
- Order and arrange combinations of mathematical objects in patterns and sequences

Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures

#### **MEASURE – MASS, CAPACITY AND TEMPERATURE**

- Compare and order lengths, mass, volume/capacity and record the results using >, < and =
- Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels

- and three-quarter turns (clockwise and anti-clockwise)
- > Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times (Year 1)
- Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times
- Know the number of minutes in an hour and the number of hours in a day

# NUMBER – ADDITION AND SUBTRACTION (PROBLEM SOLVING)

- Use place value and number facts to solve problems
- Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems
- Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures
- Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts







### Year 2 Maths Skills

Addition and	Number and Place	Fractions	Algebra	Measurement	Geometry: Position	Statistics
Subtraction	Value				and Direction	
Subtraction  NUMBER BONDS  -Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100  MENTAL CALCULATION -Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens * two two-digit numbers  * adding three one- digit numbers	COUNTING -Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward  COMPARING NUMBERS -compare and order numbers from 0 up to 100; use <, > and = signs  IDENTIFYING, REPRESENTING AND ESTIMATING NUMBERS -Identify, represent and estimate numbers using different representations, including the number line  READING AND	COUNTING IN FRACTIONAL STEPS -Pupils should count in fractions up to 10, starting from any number and using the 1/2 and 2/4 equivalence on the number line (Non- Statutory Guidance)  RECOGNISING FRACTIONS -Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity  EQUIVALENCE -Write simple fractions e.g. 1/2 of 6 = 3 and recognise	EQUATIONS - recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. (copied from Addition and Subtraction)  -recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 (copied from Addition and Subtraction)  SEQUENCES	COMPARING AND ESTIMATING  -compare and order lengths, mass, volume/capacity and record the results using >, < and =  -compare and sequence intervals of time  MEASURING and CALCULATING -choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml)	and Direction  POSITION, DIRECTION AND MOVEMENT  -use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)  PATTERN -order and arrange combinations of mathematical objects in patterns and sequences	INTERPRETING, CONSTRUCTING AND PRESENTING DATA -interpret and construct simple pictograms, tally charts, block diagrams and simple tables - ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity - ask and answer questions about totalling and comparing categorical data





### YEAR 2 MATHS PROGRESSION IN SKILLS (N.C. COVERAGE) AND KNOWLEDGE STATUTORY REQUIREMENTS

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-Show that addition	- read and write	the equivalence of	-compare and	to the nearest	Geometry:	
of two numbers can	numbers to at least	2/4 and 1/2.	sequence intervals	appropriate unit,	Properties of shapes	
be done in any order	100 in numerals and		of time	using rulers, scales,	IDENTIFYING SHAPES	
(commutative) and	in words		(copied from -	thermometers and	AND THIER	
subtraction of one			Measurement)	measuring vessels	<b>PROPERTIES</b>	
number from	<u>UNDERSTANDING</u>		order and arrange		-identify and	
another cannot	PLACE VALUE		combinations of	- recognise and use	describe the	
<b>INVERSE OPERATIONS,</b>	- recognise the place		mathematical	symbols for pounds	properties of 2-D	
ESTIMATING AND	value of each digit in		objects in patterns	(£) and pence (p);	shapes, including the	
CHECKING ANSWERS	a two-digit number		(copied from Geometry:	combine amounts to	number of sides and	
-Recognise and use	(tens, ones)		position and direction)	make a particular	line symmetry in a	
the inverse				value	vertical line	
relationship	PROBLEM SOLVING			-find different		
between addition	-use place value and			combinations of	- identify and	
and subtraction and	number facts to			coins that equal the	describe the	
use this to check	solve problems			same amounts of	properties of 3-D	
calculations and				money	shapes, including the	
solve missing				- solve simple	number of edges,	
number problems.				problems in a	vertices and faces	
PROBLEM SOLVING				practical context	vertices and races	
-Solve problems with				involving addition	- identify 2-D shapes	
addition and				and subtraction of	on the surface of 3-D	
subtraction:				money of the same	shapes, [for	
* using concrete				unit, including giving	example, a circle on	
objects and pictorial				change	a cylinder and a	
representations,				TELLING THE TIME	triangle on a	
including those				-Tell and write the	pyramid]	
involving numbers,				time to five minutes,	COMPARING AND	
quantities and				including quarter	CLASSIFYING CLASSIFYING	
measures				past/to the hour and	-compare and sort	
* applying their				draw the hands on a	common 2-D and 3-D	
increasing				clock face to show	shapes and everyday	
knowledge of mental				these times.	objects	
and written methods				- know the number of	ONJECTS	
				minutes in an hour and		
				initiates in an noar and		





## YEAR 2 MATHS PROGRESSION IN SKILLS (N.C. COVERAGE) AND KNOWLEDGE STATUTORY REQUIREMENTS

-solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (copied from Measurement)		the number of hours in a day. (appears also in Converting) CONVERTING -know the number of minutes in an hour and the number of hours in a day. (appears also in Telling the Time)
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