Maths Assessment - Year 2

Name: ....

	Teacher Assessment Framework			
Working Towards	Read and write numbers in numerals up to 100			
	Partition a 2 digit number into tens and ones to demonstrate an understanding of place value, though they may use structures resources to support them			
	Add and subtract two-digit numbers and ones, and two-digit numbers and tens, where no regrouping is required, explaining their method verbally, in pictures or using apparatus (e.g. 23 + 5; 46 + 20; 16 − 5; 88 − 30)			
	Recall at least four of the six number bonds for 10 and reason about associated facts (e.g. 6 + 4 = 10 , therefore 4 + 6 = 10 and 10 − 6 = 4)			
	Count in twos, fives and tens from 0 and use this to solve problems			
	Know the value of different coins			
	Name some common 2-D and 3-D shapes from a group of shapes or from pictures of the shapes and describe some of their properties (e.g. triangles, rectangles, squares, circles, cuboids, cubes, pyramids and spheres)			
Working At	Read scales in divisions of ones, twos, fives and tens			
	Partition any two-digit number into different combinations of tens and ones, explaining their thinking verbally, in pictures or using apparatus			
	Add and subtract any 2 two-digit numbers using an efficient strategy, explaining their method verbally, in pictures or using apparatus (e.g. 48 + 35; 72 − 17)			
	Recall all number bonds to and within 10 and use these to reason with and calculate bonds to and within 20, recognising other associated additive relationships (e.g. If 7 + 3 = 10, then 17 + 3 = 20; if 7 − 3 = 4, then 17 − 3 = 14; leading to if 14 + 3 = 17, then 3 + 14 = 17, 17 − 14 = 3 and 17 − 3 = 14)			
	Recall multiplication and division facts for 2, 5 and 10 and use them to solve simple problems, demonstrating an understanding of commutativity as necessary			
	Identify a quarter, a third, a half, two quarters and three quarters of a number or shape, and know that all parts must be equal parts of the whole			
	Use different coins to make the same amount			
	Read the time on a clock to the nearest 15 minutes			
	Name and describe properties of 2-D and 3-D shapes, including number of sides, vertices, edges, faces and lines of symmetry.			
Greater Depth	Read scales where not all numbers on the scale are given and estimate points in between			
	Recall and use multiplication and division facts for 2, 5 and 10 and make deductions outside known multiplication facts			
	Use reasoning about numbers and relationships to solve more complex problems and explain their thinking (e.g. 29 + 17 = 15 + 4 + □; 'together Jack and Sam have £14. Jack has £2 more than Sam. How much money does Sam have?' etc.)			
	Solve unfamiliar word problems that involve more than one step (e.g. 'which has the most biscuits, 4 packets of biscuits with 5 in each packet or 3 packets of biscuits with 10 in each packet?')			
	Read the time on a clock to the nearest 5 minutes			
	Describe similarities and differences of 2-D and 3-D shapes, using their properties (e.g. that two different 2-D shapes both have only one line of symmetry; that a cube and a cuboid have the same number of edges, faces and vertices, but different dimensions).			

Band 2 Maths Assessment

Name:

Autumn Term (Beginning)		Spring Term (Working Within)		Summer Term (Secure)		Greater Depth
B	**B+**	**W**	**W+**	**S**	**S+**	(Ongoing Assessment)

Autumn Term (Beginning)

Number and Place Value
- **2NPV-1: To recognise the place value of each digit in a two-digit number (tens, ones), and compose and decompose two-digit numbers using standard and non-standard partitioning.**
- **2NPV-2: Reason about the location of any two-digit number in the linear number system, including identifying the previous and next multiple of 10.**
- Count in steps of 2, 3, 5 and 10 from any number, forwards and backwards
- To identify, represent and estimate numbers using different representations, including number line.
- Compare and order numbers from 0 to 100 using the <, > and = signs
- Read and write numbers to at least 100 in numerals and words
- Use place value and number facts to solve problems
- Understand 0 as a place holder in 2 and 3 digit numbers

Addition and Subtraction
- **2NF-1: Secure fluency in addition and subtraction facts within 10, through continued practice.**
- **2AS-1 Add and subtract across 10**
- Recall and use addition and subtraction facts to 20 fluently
- **2AS-2: Recognise the subtraction and structure of 'difference' and answer questions in the form 'How many more…'**
- **2AS-3: + and - within 100 by applying related 1-digit + and - facts: add and subtract only ones or only tens to / from a 2-digit n0s**
- **2AS-4: + and - within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2-digit numbers.**
- Derive and use related facts up to 100 and to Add and subtract 2 digit numbers
- Add and subtract multiples of 10 to a given number
- Add three 1 digit numbers
- Show that addition is commutative but subtraction is not
- Recognise the inverse relationship between addition and subtraction
- Solve missing box problems involving addition and subtraction

Properties of Shape
- **2G-1: Use precise language to describe the properties of 2D and 3D shapes, and compare shapes, by reasoning about similarities and differences in properties.**
- Identify and describe the properties of 3D shapes, including the number of edges verities and faces
- Identify 2D shapes on the surface of 3D shapes
- Compare and sort common 3D shapes

Position and direction
- Continues to build on and apply taught concepts from Year 1

Multiplication and Division
- Continues to build on and apply taught concepts from Year 1

Fractions and Decimals
- Continues to build on and apply taught concepts from Year 1

Spring Term (Working Within)

Number and Place Value
- Continues to build on and apply taught concepts from Autumn term

Addition and Subtraction
- Continues to build on and apply taught concepts from Autumn term

Properties of Shape
- Continues to build on and apply taught concepts from Autumn term

Position and direction
- Order and arrange combinations of mathematical objects in patterns and sequences
- Use mathematical vocabulary to describe position, direction and movement, including movements in a straight line and turns
- Recognise quarter turns and a right angle

Multiplication and Division
- **2MD-1: Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2,5 and 10 multiplication tables.**
- **2MD-2: relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division).**
- Recall and use multiplication and division facts for the 2, 5 and 10 times table
- Calculate mathematical statements for multiplication and division and write them using the x, ÷ and = signs
- Show the multiplication is commutative and division is not
- Solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods, and multiplication and division facts
- Understand that multiplication is the inverse of addition

Fractions and Decimals
- Recognise, find, name and write 1/3, ¼, 2/4 and ¾ of a length, shape, set of objects or quantity
- Write simple fractions of amounts (e.g. ½ of 6 = 3)
- Recognise equivalence of 2/4 and ½.
- Count in fractions up to 10, starting from any number and using the ½ and 2/4 equivalence on a number line.

Measurement
- Choose and use appropriate standard units to estimate and measure length and height in m/cm
- Choose and use appropriate standard units to estimate and measure mass in kg/g
- Choose and use appropriate standard units to estimate and measure temperature in ∘c
- Choose and use appropriate standard units to estimate and measure capacity in litres/ml
- Compare and order length, mass, and capacity
- Recognise the symbol for £ and p
- Combine amounts of money to make a particular value

Summer Term (Secure)

Number and Place Value
- Continues to build on and apply taught concepts from Spring term

Addition and Subtraction
- Continues to build on and apply taught concepts from Spring term

Properties of Shape
- Continues to build on and apply taught concepts from Spring term

Position and direction

Multiplication and Division
- Continues to build on and apply taught concepts from Spring term

Fractions and Decimals
- Continues to build on and apply taught concepts from Spring term

Measurement
- Continues to build on and apply taught concepts from Spring term

Statistics
- Interpret and construct simple pictograms, tally charts, block diagrams and tables
- Ask and answer simple questions by counting the number of objects in each category and sorting the categories
- Ask and answer questions about totalling and comparing categorical data

Greater Depth (Ongoing Assessment)

General
- Make connections between different areas of maths when problem solving
- Explain the effect of different approaches when solving addition and subtraction problems (e.g. counting back vs. difference)
- Use a variety of concrete and visual representations to explain arithmetic and reasoning problems
- Apply recorded maths to real life situations independently

Number and Place Value
- Use a variety of concrete and visual representations to explain the place value of 3 digit numbers
- Can identify multiples of a given number (e.g. 5s end in 5 or 0)

Addition and Subtraction
- Confidently use columnar method as an abstract representation of addition and subtraction, including to exchange
- Apply addition and subtraction facts fluently to wider problems with increasing confidence

Properties of Shape
- Explain the differences between 3D shapes based on their properties

Position and direction
- Understands position and direction from different perspectives
- Link turns to understanding of fractions

Multiplication and Division
- Recall times tables facts
- Derive further facts from known facts (e.g. 6 x 3 = 18 so 6 x 30 = 180)
- Solve increasingly complex problems

Fractions and Decimals
- Able to estimate fractions
- Recognise non unit fractions
- Uses vocabulary of denominator and numerator accurately

Measurement
- Confidently uses tools to accurately measure
- Recognises the time throughout the day
- Tell and write the time to five

	• Find different combinations of coins that equal the same value • Solve simple problems in a practical context involving addition and subtractions of money of the same unit, including giving change • Compare and sequence intervals of time • Tell and write the time to fifteen minutes • Draw the hands on clock face to show specific times • Know the number of minutes in a day		