KEY STAGE 1 MATHS KEY ASSESSMENT OVERVIEW

YEAR 1

Count to and across 100, forwards and backwards, beginning with 0 or 1 from any given number.
Count, read and write numbers to 100 in numerals.
Represent and use number bonds and related addition and subtraction facts within 20.
Make connections between arrays, number patterns, and counting in twos, fives and tens.
Recognise, find and name a half as one of two equal parts and a quarter as 1 of 4 equal parts.
Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs.
Given a number, identify one more and one less (to 100).
Add and subtract one-digit and two-digit numbers to 20, including zero (mentally).
Solve one-step problems that involve addition & subtraction, using concrete objects, pictorial representations and missing number problems (such as 7 = ? – 9).
Identify & represent numbers using objects/ pictorial representations including the number line, and use the language of : < > =.
Solve one-step problems involving multiplication by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.
Solve one-step problems involving division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.
Read and write numbers from 1 to 20 in words (phonetically plausible).
Compare, describe and solve practical problems for: lengths and heights: mass/weight: capacity and volume.
Compare, describe and solve practical problems for time.
Measure and begin to record the following: lengths and heights: mass/weight: capacity and volume.
Recognise and know the value of different denominations of coins and notes (£1, 50p, 20p, 10p and 1p).
Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening].
Recognise and use language relating to dates, including days of the week, weeks, months and years.
Record and tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.
Recognise, name and describe the properties of common 2-D shapes (pentagons and hexagons) and 3-D shapes (cones, spheres and pyramids).
Describe position, direction and movement, i.e.: left and right, top, middle and bottom, above, in front of, above, between, around, near, close and far, up and down.
Make whole, half, quarter and three-quarter turns in both directions and connect turning clockwise with movement on a clock face.
Recognise and create repeating patterns with objects and with shapes.
To interpret and construct simple pictograms, simple tally charts and block diagrams.

YEAR 2

Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.
Recognise, find, name and write fractions (⅓, ¼, 1/2, 2/4, ¾) and know that all parts must be equal parts of the whole.
Recognise the place value of each digit in a two-digit numbers into different combinations of tens and ones. Compare and order numbers from 0 up to 100; use <, > and = signs.
Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 (tens only).
Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (to 100).
Read and write numbers to at least 100 in numerals and in words (phonetically plausible).
Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: TO ± O: TO ± O: TO ± TO: O ± O ± O (regrouping for greater depth, e.g. 52 – 27).
Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems being able to use estimation to check answers are reasonable (e.g. knowing that 48 + 35 will be less than 100).
Solve problems with addition and subtraction: using objects, pictorial representations, numbers, quantities and measures: applying increasing knowledge of mental & written methods.
Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Show that addition or multiplication of two numbers can be done in any order (commutative) and subtraction and division cannot.
Can quickly recall doubling and halving facts to 20.
Recognise the equivalence of 1/2 and ²⁄₄.
Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.
Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the X, ÷, = signs.
Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value and find different combinations of coins that equal the same amounts of money.
Choose and use appropriate standard units to estimate, measure, compare and order length/height in any direction; mass ; temperature ; capacity ; and record the results using >, < & =.
Can read scales in divisions of ones, twos, five and tens in a practical situation where all numbers on the scale are given (e.g. pupils reads the temperature on a thermometer or measures capacities using a measuring jug).
Tell and write the time to quarter past/to the hour and draw the hands on a clock face to show these times (intervals of five minutes for greater depth).
Compare and sequence intervals of time and know the number of minutes in an hour and the number of hours in a day.

Identify, describe and sort the properties of 3-D shapes, including the number of edges, vertices and faces. Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].
Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.
Order and arrange combinations of mathematical objects in patterns and sequences.
Use mathematical vocabulary to describe position, direction and movement, and rotation in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).
Construct, interpret, ask and answer simple questions about simple pictograms, tally charts, block diagrams, simple tables and comparing categorical data.