

Age-related expectations: Year One

MATHS

Number and place value

- count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
- count, read and write numbers to 100 in numerals
- count in multiples of twos, fives and tens
- given a number, identify one more and one less
- identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least
- read and write numbers from 1 to 20 in words

✦ Count reliably well beyond 100

✦ Count on and back in 3s from any given number to beyond 100

✦ Say the number that is 10 more or 10 less than a number to 100

✦ Know the signs (<); (>)

Addition and subtraction

- know by heart number bonds to 20
- represent and use number bonds and related subtraction facts within 20
- add and subtract one-digit and two-digit numbers to 20, including zero
- add and subtract more than two one-digit and two-digit numbers to 20, including zero
- read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs
- solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$

✦ Know the signs (+); (-); (=)

✦ Apply knowledge of number to solve a one-step problem involving an addition, subtraction

✦ Add and subtract 1-digit and 2-digit numbers to 50, including zero

Multiplication and division

- solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher

✦ Apply knowledge of number to solve a one-step problem involving simple multiplication and division

Fractions

- recognise, find and name a half as one of two equal parts of an object, shape or quantity
- recognise, find and name a quarter as one of four equal parts of an object, shape or quantity

Measurement

- compare, describe and solve practical problems involving a full range of measures:
 - lengths and heights [eg long/short, longer/shorter, tall/short, double/half]
 - mass/weight [eg heavy/light, heavier than, lighter than]
 - capacity and volume [eg full/empty, more than, less than, half, half full, quarter]
 - time [eg quicker, slower, earlier, later]
- measure and begin to record the following:
 - lengths and heights
 - mass/weight
 - capacity and volume
 - time (hours, minutes, seconds)
- recognise and know the value of different denominations of coins and notes
- tell the time to the hour and half past the hour and draw the hands on a clock face to show these times
- sequence events in chronological order using language [eg 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

✦ Recognise all coins and notes and know their value

✦ Use coins to pay for items bought up to £1

✦ Use knowledge of time to know when key periods of the day happen, eg, lunchtime, home time, etc

Geometry: properties of shapes

- recognise and name common 2-D and 3-D shapes, including:
 - 2-D shapes [eg rectangles (including squares), circles and triangles]
 - 3-D shapes [eg cuboids (including cubes), pyramids and spheres]

✦ Recognise different 2D and 3D shapes in the environment

Geometry: position and direction

- describe position, direction and movement, including half, quarter and three quarter turns