



## **Tawny Owls – What to expect**

### **In Maths Lessons....**

**The following content will be introduced during Year One and Two.**

#### Counting and number

##### Year 1

- Count to and across 100, forwards or backwards, beginning from any given number.
- Count, read and write numbers to 100 in numerals, count in multiples of 2,5, and 10
- Identify and represent numbers using a number line
- Use language of; equal to, more than, less than (fewer), most, least.
- Read and write numbers from 1-20 in numerals and words.
- Identify 1 more or 1 less than a given number.
- Represent and use number bonds and related subtraction facts within 20.

##### Year 2

- Count in steps of 2,3, and 5 from 0 and in 10s from any number forwards and backwards.
- Recognise the place value of each digit in a two digit number.
- Compare and order numbers from 0-100; use < > and = signs.
- Identify, represent and estimate numbers using a numberline.
- Read and write numbers to at least 100 in numerals and words.
- Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100.
- Recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers.

#### Calculating

##### Year 1

- Add and subtract 1 digit number to 20, including 0.
- Solve 1 step problems that include addition and subtraction, using concrete objects and pictorial representations.
- Solve 1 step problems that include multiplication and division, using concrete objects and pictorial representations with adult support.
- Solve missing number problems e.g,  $7 = ? - 9$

##### Year 2

- Add and subtract numbers using objects, pictures and mentally including TU+U, TU+T, TU+TU and U+U+U.
- Show that addition of two numbers can be done in any order and subtraction of one number from another cannot.



- Solve problems with addition and subtraction, using concrete, pictorial and abstract representations.
- Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.
- Calculate mathematical statements for multiplication and division within the multiplication tables and write statements using the multiplication ( $\times$ ), division ( $\div$ ) and equals ( $=$ ) signs.
- Show that multiplication of two numbers can be done in any order and division of one number by another cannot.
- Solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods and  $\times$  and  $\div$  facts including problems in contexts.
- Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.
- Find different combinations of coins that equal the same amounts of money.
- Solve simple problems in a practical context involving the  $+$  and  $-$  of money.

### Fractions

#### Year 1

- 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.

#### Year 2

- Recognise, find, name and write fractions  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{2}{4}$ ,  $\frac{3}{4}$  of a length, shape, sets of objects or a quantity.
- Write simple fractions for example,  $\frac{1}{2}$  of 6 = 3 and recognise the equivalents of  $\frac{2}{4}$  and  $\frac{1}{2}$ .

### Measure and shape

#### Year 1

- Compare, describe and solve practical problems for; length/height, weight/mass, capacity/volume, time.
- Measure and begin to record length/height, weight/mass, capacity/volume and time.
- Recognise and know the value of different denominations of coins and notes.
- Sequence events in chronological order.
- Recognise and use language relating to dates; including days of the week and months of the year.
- Tell the time to the hour and half hour and draw hands on a clock to show this.
- Recognise and name common 2D shapes (e.g, square, circle, triangle).
- Recognise and name common 3D shapes (e.g, cube, cuboid, pyramid and sphere).



Year 2

- Choose and use appropriate standard units to estimate and measure length/height (m/cm), mass (kg/g), temperature ( $^{\circ}$ C), capacity (l/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.
- Compare and order lengths, mass, volume/capacity and record the results using  $<$ ,  $>$  and  $=$ .
- Use the shape vocabulary; vertices, edges, faces and symmetry.
- Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.
- Compare and sort common 2D and 3D shapes including the number of edges, vertices and faces.
- Identify 2D shapes on the surface of 3D shapes.

Position and direction

Year 1

- Describe position, direction and movement including whole, half, quarter and three quarter turns.

Year 2

- Order and arrange combinations of mathematical objects in patterns and sequences
- Using 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 and for  $\frac{1}{4}$ ,  $\frac{1}{2}$  and  $\frac{3}{4}$  turns.

Data Handling

Year 2

- 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.