

## ST STEPHEN'S ESSENTIAL MATHS

*This booklet provides information on the end of year expectations for children in Year 2.*

*These are based on essential skills from our Mathematics Planning and Assessment System as well as other important objectives that are crucial for maximising success. There is also a section on essential mental arithmetic skills that are vital in ensuring fluency.*

*All these objectives will be worked on throughout the year and will be the focus of direct teaching.*

*Although these and all other areas of mathematics will be covered and assessed during Maths, it is crucial that the areas in this booklet are revisited and applied in different contexts, to ensure that the children make maximum progress. Therefore, during our daily 'Early Bird Maths' sessions, these objectives will be practised regularly to promote fluency.*

*If children are secure with an objective, then instead of moving them on to objectives for the next year, teachers will aim to deepen their understanding. The aim of mathematics is for depth, not rapid coverage.*

### THE MATHS ESSENTIALS ARE DESIGNED TO:

- *Identify the essential skills that children need in order to become confident, ensuring more progress.*
- *Keep teachers focussed on the essential skills rather than coverage*

## ESSENTIAL MATHS SKILLS FOR YEAR 2

- *Compare and order numbers up to 100 and use  $<$   $>$  and  $=$  signs.*
- *Recognise odd and even numbers.*
- *Solve problems for addition and subtraction, including those involving numbers, quantities and measures by using objects or pictures using written methods.*
- *Answer questions involving multiplication and division mentally and with objects.*
- *Find, name and write fractions of a length, shape and set of objects or amount, including  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{2}{4}$  and  $\frac{3}{4}$ .*
- *Can compare and sort common 2D and 3D shapes and everyday objects.*
- *Use mathematical vocabulary to describe position, direction and movement. This could include movement in a straight line.*
- *Ask and answer questions about totalling and comparing grouped data.*
- *Use place value and number facts to answer questions.*
- *Add and subtract money and give change.*
- *Read and write numbers to 100 in numbers and words.*
- *Add and subtract numbers with two digits mentally and when using objects, number lines and pictures.*
- *Can add and subtract 3 one digit numbers mentally and when using objects, number lines and pictures.*
- *Can answer simple addition and subtraction questions in my head as well as by writing them down.*
- *Can show that multiplying two numbers can be done in any order but division cannot.*
- *Can show that adding two numbers can be done in any order but subtracting cannot.*
- *Recognise the equivalence of  $\frac{2}{4}$  and  $\frac{1}{2}$ .*
- *Can tell the time to 5 minutes. Can tell when it is quarter past or quarter to an hour. Know how many hours are in a day.*
- *Can choose the right units to measure length, height, mass, temperature and capacity. Read to the nearest unit and do this on rulers or scales.*

## ESSENTIAL MENTAL ARITHMETIC SKILLS

Count backwards and forwards in jumps of 2, 3 and 5 from 0 and in 10s from any number.

Multiply and divide whole numbers by 10.

Find 10 more or 10 less than any number to 100..

Remember and use multiplication and division facts for the 2, 5 and 10 times tables.

Use key facts of doubling e.g. double 3 is 6 therefore double 30 is 60.

Solve problems with addition and subtraction mentally including two digit number and ones.

Use addition and subtraction facts to 20 quickly and work out similar facts to 100.

We should practise all the skills in this booklet not until we get them right, but until we *cannot get them wrong!*

# YEAR 2 MATHS ESSENTIALS AT

