

ST STEPHEN'S ESSENTIAL MATHS

This booklet provides information on the end of year expectations for children in Year 3.

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 3

- *Recognise the place value of each digit of a number with hundreds, tens and ones.*
- *Solve number and word problems.*
- *Add and subtract money, giving change and using pounds and pence. Can do this with real coins and notes.*
- *Calculate multiplication and division problems, both mentally and in writing, using the times tables, including two digit numbers times one digit numbers.*
- *Write and find fractions for a set of data and can recognise fractions with small denominators.*
- *Identify and show equivalent fractions.*
- *Tell and write the time on a clock face including clocks with Roman numerals I - XII, and can use 12 hour or 24 hour clocks.*
- *Recognise right angles. Recognise that two right angles make a half-turn, three make three quarters of a turn and four make a full turn.*
- *Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume and capacity (l/ml).*
- *Recognise when angles are greater or less than a right angle.*
- *Interpret and present data using bar charts, pictograms and tables.*
- *Read and write numbers to 1,000 in numbers and words.*
- *Compare and order numbers up to 1000.*
- *Add and subtract numbers with up to 3 digits using formal column methods.*
- *Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.*
- *Know that $1/5$ is the same as dividing by 5 etc.*
- *Measure the perimeter of simple 2D shapes.*
- *Solve number and word problems.*

ESSENTIAL MENTAL ARITHMETIC SKILLS

Count from 0 in multiples of 4, 8, 50 and 100.

Recall 2, 3, 4, 5, 8 and 10 times tables.

Count up and down in tenths.

Recall number bonds to 100

Add and subtract numbers in my head, including a three digit number and tens.

Add and subtract numbers mentally, including a three digit number and ones.

Find 10 or 100 more or less from a given number.

Multiply and divide whole numbers by 10.

Double and halve and two digit number

Round any number to the nearest 10 and 100

Add and subtract numbers in my head, including a three digit number and hundreds.

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

YEAR 3

MATHS ESSENTIALS

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