ST STEPHEN'S ESSENTIAL MATHS

This booklet provides information on the end of year expectations for children in Year 4.

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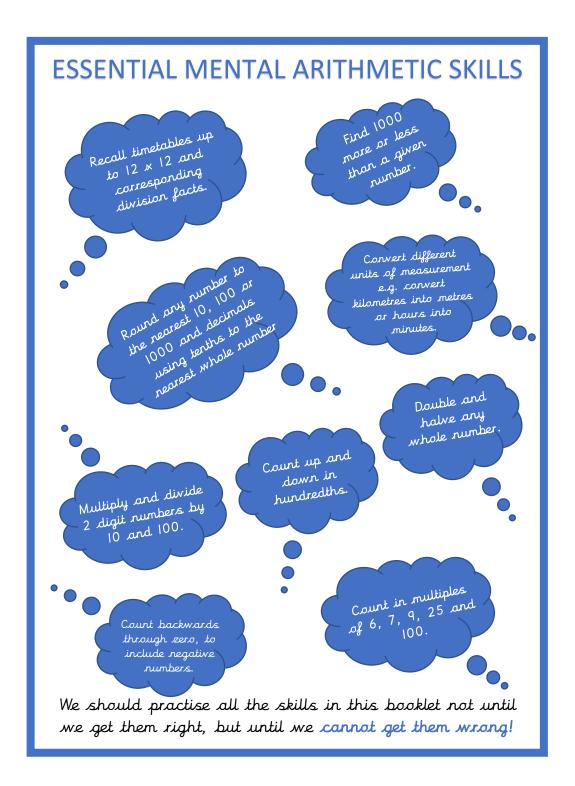
If children are secure with an objective, then instead of moving them on to objectives for the next year, teachers will aim to deepen their understanding. The aim of mathematics is for depth, not rapid coverage.

THE MATHS ESSENTIALS ARE DESIGNED TO:

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

ESSENTIAL MATHS SKILLS FOR YEAR 4

o Order and compare numbers beyond 1000.
o Solve two step addition and subtraction problems, using different methods, and explain why they are used.
o Solve simple money and measure problems involving fractions and decimals up to two decimal places.
o Recognise and show, using diagrams, families of common equivalent fractions.
o Plot points given and draw sides to complete a polygon.
o Compare and classify geometric shapes, including quadrilaterals and triangles based on their properties and sizes.
o Identify lines of symmetry in 2D shapes presented in different orientations.
o Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.
o Add and subtract numbers with up to four digits using formal column methods.
o Multiply and divide two digit and three digit numbers by a one digit number using a formal written method.
o Calculate fractions of numbers using common multiplication tables e.g. 3/5 of 45.
o Read, write and compare time between analogue and digital 12 hour and 24 hour clocks.
o Estimate, compare and calculate different measures (e.g. put in order 4.2kg, 4700g, 4 1/2kg etc), including money in pounds and pence.

ESSENTIAL MENTAL ARITHMETIC SKILLS

Recall timetables up to 12 x 12 and corresponding division facts.

Find 1000 more or less than a given number.

Round any number to the nearest 10, 100 or 1000 and decimals using tenths to the nearest whole number

Convert different units of measurement e.g. convert kilometres into metres or hours into minutes.

Double and halve any whole number.

Count up and down in hundredths.

Multiply and divide 2 digit numbers by 10 and 100.

Count backwards through zero, to include negative numbers.

Count in multiples of 6, 7, 9, 25 and 100.

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

YEAR 4

MATHS ESSENTIALS

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St Stephen's C.E. Primary School