

## AGENDA

- Calculation Policy Overview
- How to help your child at home


## Year 3 Key Objectives

Key Curriculum Objectives and Assessment Criteria


## Year 4 Key Objectives

Number and Place Value
I can recognise the place value of each digit in 34 -digit number

I can compare and order numbers beyond 1000; using <> = signs

I cancount in multiples of $6,7,9,25$ and 1000
I can round to the nearest 10,100 or 1000 and decimals with 1 decimal place to the nearest integer
I can count bachwards through zero to include negative numbers

## Time <br> I can read, write and convert time between <br> analogue and digital 12 -hour and 24 -hour

I can solve problems and convert between hours
to minutes; minutes to seconds, years to months and weekstodyry

Statistics
an solve compurion, wum and differenceprobliems
uing information preserted in bar charts,
pictogramsetc.
Position
I can plot specified points and draw sides to complete a given polygon

Calculations
I can add numbers up to 4 -digits (selecting the most efficient method)


I can solve addition and subtractions 2 step problems

## I can recall multiplication and division facts up to $12 \times 12$

| I can use place value, known and derived <br> facts to multiply and divide mentally |
| :---: |
| I can multiply 2 and 3 -digit numbers by a <br> 1-digit number using a range of methods |
| Measures |
| I can convert between different units of <br> measurement |
| I can measure and calculate the perimeter <br> of a rectilinear figure in cm and m |

I can find the area of rectilinear shapes by counting squares

I can compare different measures, including money in $£$ and $p$

Fractions and Decimals I can count up and down in hundredths

I can recognise and show using
diagrams, familes of common
equivalentriactions

## I can add and subtract fractions with the

same denominator

## I can recognise and write decima|

 equivalents to $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, \frac{1}{10}$ 's $\frac{1}{100}$ 'sI cancompare numbers and order numbers up to two decimal places

I can find the effect of dividing a 1 -digit or 2 -digit number by 10 and 100

I can solve measure and moner problems involving fractions and decimals to 2 decimalolaces

## Geometry

I can compare and clasity shapes, including
Quadrilatenals and trianster bosed on theic

I Can identify lines of symmetry in 20 thapes presented in different orientations

I can identify acute andobtuse angles, compare and order angles up to two right



## CALCULATION METHODS ADDITION

Example: $463+278$
$+200$


463

You try: $263+698$

## YEAR 4 ADDITION

$$
\begin{array}{r}
3467 \\
+\quad 2278
\end{array}
$$

You try: $4567+3802$

YEAR 5 ADDITION

$$
\begin{array}{r}
\text { Example: } 365,406+72,845 \\
365,406 \\
+\quad 72,645 \\
\hline 438,051 \\
\hline 1
\end{array}
$$

Example: $12.7+3.8$


## YEAR 6 ADDITION

$$
\begin{array}{r}
2.476 \\
+0.715 \\
\hline 3.191 \\
\hline 111
\end{array}
$$

## YEAR 3 SUBTRACTION

## Example: 463-279

 0

## YEAR 4 SUBTRACTION

Example: 3467-2675
You try: 5672-4821


## YEAR 5 SUBTRACTION

Example: 305,426-8,245


You try: 543,972-6,389

## YEAR 6 SUBTRACTION

Example: 2.415-0.737


# YEAR 3 MULTIPLICATION 

Example: $6 \times 34$


YEAR 4 MULTIPLICATION

Example: $4 \times 324$

| $x$ | 300 | 20 | 4 |
| :--- | :--- | :--- | :--- |
| 4 |  |  |  |

YEAR 5 MULTIPLICATION

You try: $423 \times 23$

$$
\left.\begin{aligned}
& 326 \times 53 \\
& \times \\
& \hline 500206 \\
& \hline 50 \\
& 15000+1000+300=16300 \\
& 3
\end{aligned} \right\rvert\, 900+60+18=\frac{978}{\frac{17278}{1}} . l \begin{aligned}
& 3
\end{aligned}
$$

YEAR 6 MULTIPLICATION

$$
\begin{array}{r}
4267 \\
\times \quad 34 \\
\hline 17068(4 \times 4267) \\
\times 1 \times x 10(30 \times 4267) \\
\hline 28010 \\
\hline 45078 \\
\hline 1
\end{array}
$$

YEAR 3 DIVISION

$$
27 \div 5=
$$



## YEAR 4 DIVISION

$325 \div 5=65$

$60 \times 5$

$5 \times 5$
300
325

YEAR 5 DIVISION

$$
\begin{aligned}
& 3276 \div 4= \\
& 4 \longdiv { 3 2 7 6 }
\end{aligned}
$$

YEAR 6 DIVISION
$672 \div 21=$
You try: $824 \div 16$

$$
2 1 \longdiv { 6 7 2 }
$$

## HOW TO HELP AT HOME

1. Ask your child to teach you maths
If a teacher encourages your child to use one approach to doing a maths calculation, and a parent encourages the child to use a different approach at home, the child may get confused between both approaches.

## HOW TO HELP AT HOME

2. Encourage your child to be independent in maths Very often, children wait for an adult such as a parent or teacher to tell them that a solution to a problem is correct or incorrect.

It's better for the child if they can be confident in their own solution. Therefore, if your child asks if a question is right or wrong, a response might be, "Give me a reason why you think it's right" or "How can you be sure that it's right?"

## HOW TO HELP AT HOME

3. Play games that encourage mathematical thinking For younger children, Jenga is good, 'shut the box' and dominoes are good games to play.

Sumdog is a great app to use with your children!
Times Tables Rock Stars is also fun and will help your children with times tables.


## HOW TO HELP AT HOME

## 4. Promote a positive attitude to maths!

Often you hear people say "Oh, I was never any good at maths myself in school."
Such comments give pupils the idea that maths is difficult or that it is acceptable to be a low achiever in maths.
The comments also give the false impression that maths is something you're either good at or you're not.
Parents are in a good position to let their children know that anyone can be good at maths, and that knowledge of maths is helpful in life generally, because it opens up doors to some exciting career options.

