

Yr3

Introduce short division of two-digit numbers by a singledigit number.

Yr4 & Yr5
Children begin to divide three-digit numbers
by a single-digit number. Until children
become confident, the numbers chosen
should not result in a final remainder.

Yr6

Continue to use short methods and begin to express remainders as decimals (see above). Introduce long division by chunking for division by two-digit numbers.

Number Facts

We believe that there are some simple facts related to addition, subtraction, multiplication and division that children should learn and remember. Being able to remember these facts quickly and accurately—without having to calculate them—is an essential element of becoming a capable and confident user of maths.

Children should remember addition facts for all of the numbers up to 10, for example 4+3=7. Remembering this fact allows children to quickly calculate 40+30=70 or 24+13=37 or 167-14=153

Knowledge of multiplication and division facts is a fundamental requirement to allow children to successfully learn to multiply and divide—as well as use fractions and percentages.



Children should start by reciting individual times tables along with an adult until they can remember them reliably. After that they can try writing them out and then, once they can do this fairly reliably, they can try to remember individual facts. At this stage, use of Times Tables Rockstars will really help

children improve their ability to quickly and accurately recall the multiplication and division facts that they need to solve problems in school and in real life situations.

MyMaths and Doodlemaths

We use MyMaths and Doodlemaths to support your child's learning throughout the maths curriculum. (Times Tables Rockstars is focused on knowledge of multiplication and division facts.)

Both MyMaths and Doodlemaths feature interactive lessons and practice activities—which often take the form of games.

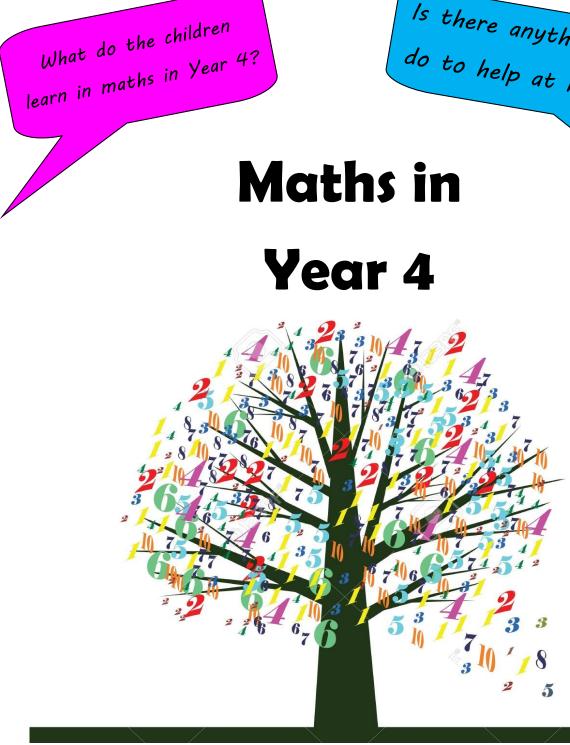


MyMaths allows your child's teacher to set homework to provide further practice of topics covered in class.



Doodlemaths provides a progression of activities and lessons which the child works through independently. Your child's performance is analysed by Doodlemaths and the activities they are then assigned are selected to provide practice in the most useful areas for them.

If you have any questions about your child's learning in maths or how you can support them at home, please don't hesitate to get in touch.



Key Objectives for Year Four

- Recall and use multiplication and division facts for multiplication tables up to 12 x 12
- Count backwards through zero to include negative numbers
- Compare and order numbers beyond 1000
- Count in multiples of 6, 7, 9, 25 and 1000
- Count up and down in hundredths
- Identify 1000 more or less than a given number
- Round any number to the nearest 10, 100 or 1000
- Round decimals with one decimal place to the nearest whole number
- Compare numbers with the same number of decimal places up to two decimal places

Is there anything I can do to help at home?

- Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths
- Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
- Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
- Use place value, known and derived facts to multiply and divide mentally
- Multiply two-digit and three-digit numbers by a one-digit number using formal written layout

A new curriculum for maths was issued to schools in 2014. This divides the maths taught in Years 3 to 6 (Key Stage 2) into the areas summarised below.

New concepts, knowledge and skills are introduced progressively as children move up through the year groups. This learning provides a foundation for the more challenging areas encountered later in school.

Number and Place Value

Counting, reading, writing, comparing, ordering and rounding numbers, estimation, Roman numerals and negative numbers

Calculations

- Adding and subtracting mentally, adding and subtracting using written methods, estimation, use of inverse operations and checking
- Multiples, factors, prime numbers, squares and cubes
- Knowledge of multiplication and division facts
- Multiply and divide mentally, multiply and divide using written methods
- Solve problems involving all four operations (+, -, x & ÷)
- Use knowledge of the order of operations (BODMAS)

Algebra

- Missing number problems expressed in algebra
- Simple formulae expressed in words
- Generate and describe linear number sequences
- Number sentences involving two unknowns
- List all possibilities / combinations

Geometry

- Recognise, name and classify common shapes according to their properties
- Draw and make shapes and relate 2-D to 3-D shapes (incl. nets)
- Angles—measurement and properties
- Patterns
- Describe position and movement
- Coordinates

Fractions, Decimals and Percentages

- Recognise, find, write, name and count fractions
- Equivalent fractions
- Comparing and ordering fractions
- Add, subtract, multiply and divide fractions
- Understand how fractions, decimals and percentages can be equivalent
- Rounding, compare and order decimals
- Multiply and divide decimals
- Solve problems with fractions, decimals and percentages

Ratio and Proportion (Yr6 only)

- Relative sizes, similarity
- Use of percentages for comparison
- Scale factors
- Unequal sharing and grouping

Measurement

- Compare, describe and order measures
- Estimate, measure and read scales
- Money
- Telling time, ordering time, duration of events and units of time
- Convert between units (metric and imperial)
- Calculate perimeter, area and volume
- Solve problems involving measures

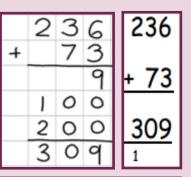
Statistics

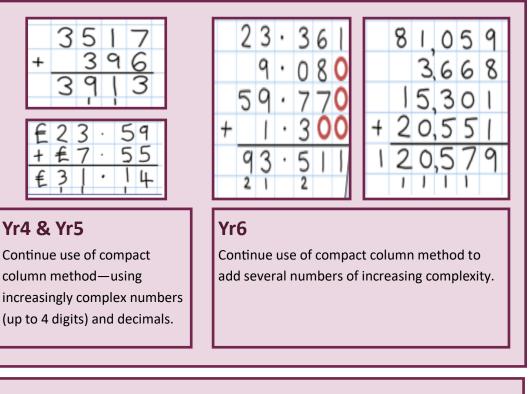
- Interpret and represent data
- Solve problems involving data
- Calculate mean



Addition

Yr3

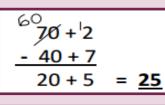




Yr4 & Yr5

Continue use of compact column method—using

Subtraction



Move from expanded

(traditional) compact

column method to

column method

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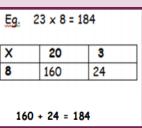
Yr3

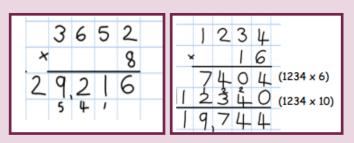
Partitioned column method—starting with examples where no exchanging is needed

Yr4 & Yr5

Move to (traditional) compact column method for four-digit numbers and numbers with decimals values.

Multiplication





Yr4 & Yr5

two-digit numbers.

Introduce grid method for two-digit times one -digit numbers

Yr3

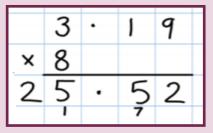


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Yr6

Continue use of compact column method to subtract numbers of increasing complexity.

When confident, children move towards (traditional) short multiplication for multiplication by a single-digit number and long multiplication for multiplication by



Yr6

Continue use of short and long methods and introduce multiplication of decimals by a single-digit number.