

## Information for Parents/Carers

### MATHEMATICS TARGETS - A YEAR 4 MATHEMATICIAN

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#### Number, place value, approximation and estimation/rounding

I can count in multiples of 6, 7, 9, 25 and 1,000.

I can order and compare numbers beyond 1,000.

I can find 1,000 more or less than a given number.

I recognise the place value of each digit in a 4-digit number.

I can read Roman numerals to 100 and know that over time the numeral system changed to include the concept of zero and place value.

I can identify, represent and estimate numbers using different representations.

I can round any number to the nearest 10, 100 or 1,000.

I can count backwards through zero to include negative numbers.

I can solve number and practical problems with the above (involving increasingly large numbers).

#### Calculations

I can add and subtract numbers with up to 4-digits using the formal written methods of columnar addition and subtraction.

I can estimate and use inverse operations to check answers in a calculation.

I can solve addition and subtraction 2-step problems in contexts, deciding which operations and methods to use and why.

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

I can use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

I recognise and use factor pairs and commutativity in mental calculations.

I can multiply 2-digit numbers by a 1-digit number using formal written layout.

I can solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by 1-digit, integer scaling problems and harder correspondence problems such as  $n$  objects are connected to  $m$  objects.

#### Fractions, decimals and percentages

I can count up and down in hundredths.

I recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten.

I recognise and show using diagrams, families of common equivalent fractions.

I can add and subtract fractions within the same denominator.

I recognise and write decimal equivalents to  $\frac{1}{4}$ ,  $\frac{1}{2}$  and  $\frac{3}{4}$ .

I recognise and write decimal equivalents of any number of tenths or hundredths.

I can round decimals with one decimal place to the nearest whole number.

I can compare numbers with the same number of decimal places up to 2 decimal places.

I can find the effect of dividing a 1-digit or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.

I can solve problems involving increasingly harder fractions and fractions to divide quantities, including non-unit fractions where the answer is a whole number.

I can solve simple measure and money problems involving fractions and decimals to 2 decimal places.

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##### Measurement

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

I can estimate different measures, including money in £ and p.

I can calculate different measures. Including money in £ and p.

I can read, write and convert time between analogue and digital 12 hour clocks.

I can read, write and convert time between analogue and digital 24 hour clocks.

I can solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

I can convert between different units of measurements

I can measure and calculate the perimeter of a rectilinear figure in cm and m.

I can find the area of rectilinear shapes by counting squares.

I can calculate different measures

##### Geometry – properties of shapes

I can compare and classify geometric shapes, including quadrilateral and triangles based on their properties and sizes.

I can identify lines of symmetry in 2D shapes presented in different orientations.

I can complete a simple symmetric figure with respect to a specific line of symmetry,

I can identify acute and obtuse angles and compare and order angles up to two right angles by size.

##### Geometry – position and direction

I can describe movements between positions as translations of a given unit to the left/right and up/down.

I can describe positions on a 2D grid as coordinates in the first quadrant.

I can plot specified points and draw sides to complete a given polygon.

##### Statistics

I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.

I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

## Information for Parents/Carers

### Mathematics Targets

#### Year 4: Mathematics at Greater Depth

- I can solve multi-step problems related to on-going learning in science, history and geography.
- I can rapidly recall answers when multiplying and dividing a whole or decimal number by 10.
- I deal very confidently and rapidly with any addition or subtraction operations involving up to four digits.
- I deal effectively with any reasoning problems related to the Year 4 expectations in number and measures.
- I show a good level of resilience when it comes to tackling difficult problems which may require deep thinking.
- I can explain my reasoning to a peer and at the same time deepen my own understanding.
- I show a growing confidence when applying any multiplication facts to on-going learning in other subjects.
- I am able to work out which number or measurement operation is most appropriate to a given problem.
- I can return to any area of mathematical learning after a break and pick up quickly without needing to be re-taught.
- I can collect my own data on a given project and present information in graphical formats of my choosing.