



## Milborne First School Maths – Achieving Mastery

At Milborne First School we understand the National Curriculum to be a mastery curriculum. We believe to show mastery of the Maths curriculum children need to be able to demonstrate key skills or concepts independently. What constitutes independent Maths has been defined and agreed within Milborne School under the following principles;

### **Maths is likely to be independent if it:**

- emerges from a quality question, problem or cross curriculum experience, in which pupils have had a range of opportunities to explore and discuss the question or problem
- enables pupils to apply their learning independently, with an element of choice, for example how to record their workings, which manipulatives to use
- is in response to prior paired or group work
- is produced by pupils who have independently drawn on any classroom resources including displays, number lines
- is informed by clear learning objectives which are not over detailed and do not over-aid pupils
- is during a conversation with a teacher who asks questions e.g. Tell me how you worked it out, why you did it that way, prove to me that it is correct
- is when a child chooses to draw a number bond or write the equation following practical work
- is unaided answers to the NCTEM teaching for mastery questions and tasks
- is as part of an external assessment

### **YEAR 4**

Count in multiples of 6, 7, 9, 25 and 1000.

Order and compare numbers beyond 1000.

Round any number to the nearest 10, 100 or 1000

Add and subtract numbers with up to four digits

Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

Recall multiplication and division facts for multiplication tables up to  $12 \times 12$ .

Recognise and show, using diagrams, families of common equivalent fractions.

Round decimals with one decimal place to the nearest whole number.

Solve simple measure and money problems involving fractions and decimals to two decimal places.

Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.

Plot specified points and draw sides to complete a given polygon.

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

Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days

Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number