Mathematics
Number & Calculations

Name: _____

By the end of Year 5...

To Know and Use Numbers			*I can **read and write numbers to at least 1,000,000**.
			I can **order and compare numbers up to 1,000,000**
			I can **count forwards and backwards in steps of powers of 10** for any number **up to 1,000,000**.
			*I can **count forward and backwards with positive and negative whole numbers**, including across zero.
			I can determine the **value of each digit** in any number **up to 1 million**.
			I can **read Roman numerals to 1000** (M) and recognise years written in Roman numerals
			I can **round any number up to 1,000,000 to the nearest 10,100, 1000, 10,000 and 100,000**.
			*I can **solve problems** and practical problems covering all of the Year 5 number targets.
			*I can **add and subtract whole numbers with more than four digits** using formal methods.
			*I can **mentally add and subtract numbers** with increasingly large numbers.
			I can **solve multi-step addition and subtraction problems** in context involving all operations.
			I use **rounding to check answers** to calculations and determine level of accuracy.
To Multiply and Divide			*I can **identify multiples and factors**, including **common factors of two numbers**.
			I know and use the vocabulary: **prime numbers, prime factors and composite numbers**.
			I can **recall prime numbers up to 19** and can establish whether **any number up to 100 is a prime number**.
			I can **recognise and use square numbers, cube numbers, including the notation**. (3^2, 5^3).
			I can **multiply and divide mentally**, drawing upon known facts.
			I can **multiply and divide whole numbers and those involving decimals by 10, 100 and 1000**.
			I can **multiply multi-digit numbers up to four digits by a one/two-digit number** using formal methods.
			I can **divide numbers up to four digits by a one-digit whole number** using formal methods.
			I can **interpret remainders as whole number remainders, fractions or by rounding**, as appropriate.
			I understand the **inverse relationship between multiplication and division** and use it to check the answers to a calculation.
			I can **solve two-step problems** in context involving all operations and an understanding of the = sign.
			*I can **solve problems involving multiplication and division**, using my knowledge of factors and multiples, squares and cubes.
To Use Fractions			*I can **solve problems** that include **scaling by simple fractions** and problems involving **simple rates**.
			*I can **read, write, order and compare numbers with up to 3dp**.
			I can **round decimals with 2dp to the nearest whole number and to 1dp**.
			*I can **compare and order fractions whose denominators are all multiples of the same number**.
			I can identify, name and write **equivalent fractions of a given fraction**.
			*I can read and write **decimal numbers as fractions**.
			I can **recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents**.
			I can **add and subtract decimals**. (*mix of whole numbers and decimals; decimals with different number of decimal points; compliments to 1 e.g. 0.83+0.17=1*)
			I can **solve problems involving decimals up to 3DP**.
			I can **add and subtract fractions with the same denominator and denominators that are multiples of the same number**. e.g. $^1/_3 + ^2/_6 = ^2/_3$
			I can **recognise and convert mixed numbers and improper fractions** from one form to the other.
			I can **count forwards and backwards in simple fractions**.
			I can **multiply proper fractions and mixed numbers by whole numbers**.
			I can **calculate fractions of quantities and amounts**.
			I can **recognise the percent symbol (%) and understand its meaning**.
			I can **write percentages as a fraction with a denominator of 100 and as a decimal**. E.g. $^{30}/_{100}$ = 30% = 0.30.
			*I can **solve problems** which require knowing **percentage and decimal equivalents of $^1/_2$, $^1/_4$, $^1/_5$, $^2/_5$, $^4/_5$** and those **fractions with a denominator of a multiple of 10 or 25**.