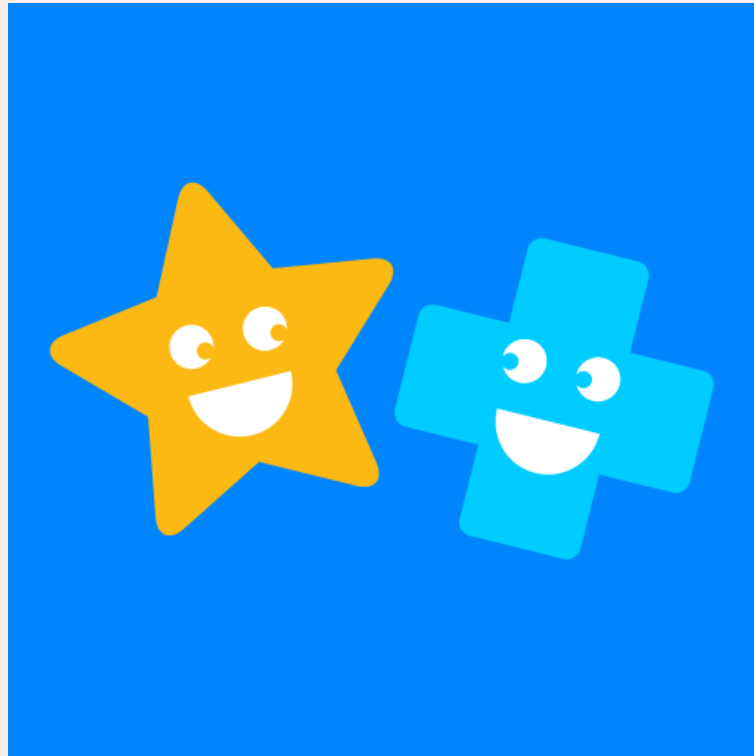


Maths Workshop Year 5

25.09.25

Doodle Maths whilst everyone arrives.



Agenda

- ▶ Year 5 expectations
- ▶ Overview of lessons
- ▶ Activity time

Year 5 expectations

Number Place value FREE TRIAL VIEW	Number Addition and subtraction VIEW	Number Multiplication and division A VIEW	Number Fractions A VIEW		
Number Multiplication and division B VIEW	Number Fractions B VIEW	Number Decimals and percentages VIEW	Measurement Perimeter and area VIEW	Statistics VIEW	
Geometry Shape VIEW	Geometry Position and direction VIEW	Number Decimals VIEW	Number Negative numbers VIEW	Measurement Converting units VIEW	Measurement Volume VIEW

Year 5 expectations

Number - Number and Place Value

- ☐ I can read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit.
- ☐ I can count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.
- ☐ I can interpret negative numbers in context count forwards and backwards with positive and negative whole numbers, including through zero.
- ☐ I can round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.
- ☐ I can solve number problems and practical problems that involve all of the above.
- ☐ I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals.

Year 5 expectations

Number - Addition and Subtraction

- ☐ I can add and subtract whole numbers with **more than 4 digits**, including using formal written methods (columnar addition and subtraction).
- ☐ I can add and subtract numbers **mentally** with increasingly large numbers.
- ☐ I can use **rounding to check answers** to calculations and determine, in the context of a problem, levels of accuracy.
- ☐ I can solve addition and subtraction multi-step problems in contexts, deciding which operations and **methods to use and why.**

Year 5 expectations

Number - Multiplication and Division

- ☐ I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
- ☐ I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.
- ☐ I can establish whether a number up to 100 is prime and recall prime numbers up to 19.
- ☐ I can multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.
- ☐ I can multiply and divide numbers mentally drawing upon known facts.
- ☐ I can divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.
- ☐ I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.

- ☐ I can recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3).
- ☐ I can solve problems involving multiplication and division including using my knowledge of factors and multiples, squares and cubes.
- ☐ I can solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.
- ☐ I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

Year 5 expectations

Number - Fractions (Including Decimals and Percentages)

- ☐ 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, represented visually, including tenths and hundredths.
- ☐ I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].
- ☐ I can add and subtract fractions with the same denominator and denominators that are multiples of the same number.
- ☐ I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
- ☐ I can read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$].

- ☐ I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.
- ☐ I can round decimals with two decimal places to the nearest whole number and to one decimal place.
- ☐ I can read, write, order and compare numbers with up to three decimal places.
- ☐ I can solve problems involving number up to three decimal places.
- ☐ I can recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.
- ☐ I can solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.

Year 5 expectations

Number Place value FREE TRIAL VIEW	Number Addition and subtraction VIEW	Number Multiplication and division A VIEW	Number Fractions A VIEW
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► Autumn overview

Year 5 expectations

Number Multiplication and division B VIEW	Number Fractions B VIEW	Number Decimals and percentages VIEW	Measurement Perimeter and area VIEW	Statistics VIEW
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► **Spring overview**

Year 5 expectations

Geometry Shape VIEW	Geometry Position and direction VIEW	Number Decimals VIEW	Number Negative numbers VIEW	Measurement Converting units VIEW	Measurement Volume VIEW
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► Summer overview

Lesson overview

- ▶ LO's break down skill for that lesson. Usually, a small step to achieve the Year 5 expectations.

Round to the nearest 10, 100 or 1,000
Round within 100,000
Round within 1,000,000

- ▶ Allows for time to recap, and consolidate necessary knowledge before moving onto new content.

► Fluency

Abstract

[illegible]
$$1,562 + 301 = 4,572$$


What is the smallest possible total of Dexter's numbers?

Activity time

- ▶ Formal methods - addition and subtraction up to 1,000,000
- ▶ Angle detective
- ▶ Word problems/Reasoning
- ▶ Place Value Board Game

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Please complete the questionnaires and place on teacher desk.