Y5 Yearly Overview 2018-2019

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<tr><th>Term 1 and 2 – NFER assessment November</th><th>Term 3 and 4</th><th>Term 5 and 6 - NFER assessment June</th></tr>
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Statistics

- Solve comparison, sum and difference problems using information presented in a line graph (Science link)

Number and Place Value

- read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit
- Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
- Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 (Link with FDP/Money – Round decimals with 2d.p. to the nearest whole number and to 1d.p.)
- interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
- Solve number problems and practical problems that involve all of the above

Addition and Subtraction

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

Measures

- Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.

Multiplication and Division - Numbers

- identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers
- know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
- establish whether a number up to 100 is prime and recall prime numbers up to 19
- recognise and use square numbers and cube numbers, and the

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Four Rules

solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign (FOCUS ON USE OF BAR MODEL)

Fractions including decimals

- recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
- compare and order fractions whose denominators are all multiples of the same number
- identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
- read and write decimal numbers as fractions [for example, 0.71 = $^{71}/_{100}$]
- read, write, order and compare numbers with up to three decimal places
- solve problems involving number up to three decimal places
- 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
- Solve problems which require knowing percentage and decimal equivalents of ½, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25.

Multiplication and division/measures

- Multiply and divide whole numbers by 10, 100 and 1000
- Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)

Fractions - calculating

- 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, $^{2}/_{5} + {}^{4}/_{5} = {}^{6}/_{5} = 1\ {}^{1}/_{5}$]
- add and subtract fractions with the same denominator and denominators that are multiples of the same number
- multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
- 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
- solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

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Measures – Time and Statistics

- Solve problems involving converting between units of time
- Complete, read and interpret information in tables

Geometry – properties of shape

- identify 3-D shapes, including cubes and other cuboids, from 2-D representations

Angles

- know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
- draw given angles, and measure them in degrees (°)
- identify angles at a point and one whole turn (total 360°); angles at a point on a straight line and $^{1}/_{2}$ a turn (total 180°); other multiples of 90use the properties of rectangles to deduce related facts and find missing lengths and angles
- distinguish between regular and irregular polygons based on reasoning about equal sides and angles°

Geometry – position and direction

- identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed

Measures

- understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints

Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]

Revisit of four rules

use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling

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notation for squared (^{2}) and cubed (^{3}) • solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes		
Multiplication and Division - Calculating • 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 • 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		**CONSOLIDATION**
Measures Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes		

- read Roman numerals to 1000 (M) and recognise years written in Roman numerals – Covered in morning maths/use of date
- multiply and divide numbers mentally drawing upon known facts – Covered in NNNF

Daily use of **'No Nonsense Number Facts'** which will incorporate:
Regular practise of multiplication facts and opportunities to use known number facts