



The Creative Learning Journey Ready, Steady, Go!



MATHEMATICS AND COMPUTING

Number - addition and subtraction UKS2

- m164 add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
- m165 add and subtract numbers mentally with increasingly large numbers
- m166 use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
- m167 solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Number - number and place value UKS2

- m210 read, write, order and compare numbers up to 10 000 000 and determine the value of each digit
- m211 round any whole number to a required degree of accuracy
- m212 use negative numbers in context, and calculate intervals across zero
- m213 solve number and practical problems that involve all of the above.

Number - addition, subtraction, multiplication and division UKS2

- m214 multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
- m215 divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context
- m218 identify common factors, common multiples and prime numbers
- m220 solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
- m221 solve problems involving addition, subtraction, multiplication and division

Number - fractions (including decimals and percentages) UKS2

- m223 use common factors to simplify fractions; use common multiples to express fractions in the same denominator
- m224 compare and order fractions, including fractions > 1
- m225 add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
- m226 multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $1/4 \times 1/2 = 1/8$]
- m227 divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$]
- m229 identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places
- m233 recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

Ratio and proportion UKS2

- m234 solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts
- m235 solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
- m236 solve problems involving similar shapes where the scale factor is known or can be found

Algebra UKS2

- m238 use simple formulae
- m239 generate and describe linear number sequences
- m240 express missing number problems algebraically

Measurement UKS2

- m243 solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
- m244 use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation up to three decimal places
- m246 recognise that shapes with the same area can have different perimeters and vice versa
- m248 calculate the area of parallelograms and triangles
- m249 calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³].

Geometry - properties of shapes UKS2

- m250 draw 2-D shapes using given dimensions and angles
- m252 compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
- m254 recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.

Geometry - position and direction UKS2

- m255 describe positions on the full coordinate grid (all four quadrants)
- m256 draw and translate simple shapes on the coordinate plane, and reflect them in the axes.

Statistics UKS2

- m257 interpret and construct pie charts and line graphs and use these to solve problems
- m258 calculate and interpret the mean as an average.

Reading - word reading UKS2

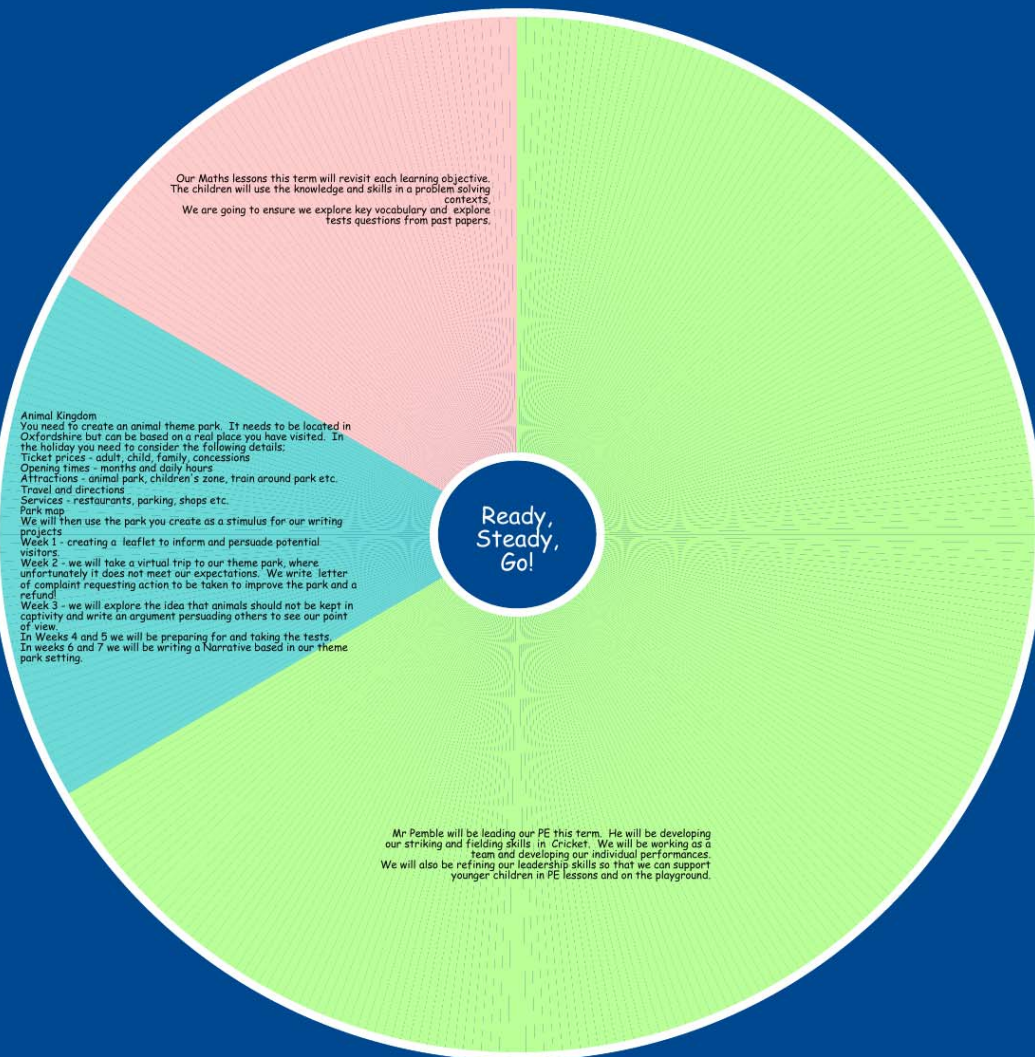
- e200 apply their growing knowledge of root words, prefixes and suffixes (morphology and etymology), as listed in English Appendix 1, both to read aloud and to understand the meaning of new words that they meet.

Reading - comprehension UKS2

- e202 continuing to read and discuss an increasingly wide range of fiction, poetry, plays, non-fiction and reference books or textbooks
- e204 increasing their familiarity with a wide range of books, including myths, legends and traditional stories, modern fiction, fiction from our literary heritage, and books from other cultures and traditions
- e205 recommending books that they have read to their peers, giving reasons for their choices
- e210 understand what they read by
- e211 checking that the book makes sense to them, discussing their understanding and exploring the meaning of words in context

Writing - composition UKS2

- e233 plan their writing by:
- e234 identifying the audience for and purpose of the writing, selecting the appropriate form and using other similar writing as models for their own
- e235 noting and developing initial ideas, drawing on reading and research where necessary
- e236 in writing narratives, considering how authors have developed characters and settings in what pupils have read, listened to or seen performed
- e237 draft and write by:
- e241 using a wide range of devices to build cohesion within and across paragraphs
- e242 using further organisational and presentational devices to structure text and to guide the reader [for example, headings, bullet points, underlining]
- e243 evaluate and edit by:
- e244 assessing the effectiveness of their own and



LITERACY

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