| Year 6 | Number and place | Addition, Subtraction, | Fractions (including decimals and | Ratio and Proportion | Algebra | Measurement | Geometry | Statistics |
|-------------------------|---|---|---|--|--|--|---|---------------------------------|
| Maths | value | Multiplication and Division | percentages) | Ratio and Proportion | Aigebia | Weastrement | Properties of Shapes | Statistics |
| Widths | Value | Waterprication and Division | percentages | | | | Position and Direction | |
| | | | | | | | Position and Direction | |
| Pupils | read, write, order and | multiply multi-digit numbers up to 4 | use common factors to simplify | solve problems involving | use simple | solve problems involving the | draw 2-D shapes using given | interpret and |
| should be | compare numbers up to | digits by a two-digit whole number using the formal written method of | fractions; | the relative sizes of two | formulae | calculation and conversion of units of | dimensions and angles | construct pie |
| taught to: | 10 000 000 and determine the value of | long multiplication | use common multiples to express fractions | quantities where missing values can be found by | | measure, using decimal notation up to three decimal places where | | charts and line graphs |
| | each digit | l seng manipusanen | in the same denomination | using integer multiplication | | appropriate | | and use these |
| | solve number and | | | and division facts | | | | to solve problems |
| | practical problems that divide numbers up to 4 digits by | compare and order fractions, including | | | | | 1 | |
| | involve this | a two-digit whole number using the formal written method of long | fractions > 1 | | | | | |
| | | division, and interpret remainders as | | | | | | |
| | | whole number remainders, fractions, | | | | | | |
| | | or by rounding, as appropriate for the context | | | | | | |
| Pupils | round any whole | divide numbers up to 4 digits by a | add and subtract fractions with different | solve problems involving | generate and | use, read, write and convert | recognise, describe and build simple | calculate |
| should be | number to a required | two-digit whole number using the | denominators and mixed numbers, using | the calculation of | describe linear | between standard units, converting | 3-D shapes, including making nets | and interpret |
| taught to: | degree of accuracy | formal written method of long division, and interpret remainders as whole | the concept of equivalent fractions | percentages [for example, of measures, and such as | number sequences | measurements of length, mass, volume and time from a smaller unit of | | the mean as |
| | solve number and practical problems that involve this | and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context | concept of equivalent fractions | 15% of 360] and | sequences | measure to a larger unit, and | | an average. |
| | | | multiply simple pairs of proper fractions, writing the answer in its simplest form [f o r | | | vice versa, using decimal notation to | | |
| | | | e x a m p l e, $1/4 \times 1/2 = 1/8$] | the use of percentages for comparison | | up to three decimal places | | |
| | | | | companion | | | | |
| Pupils | use negative | divide numbers up to 4 digits by | divide proper fractions by whole | solve problems involving | express | convert between miles and | compare and classify geometric | |
| should be | numbers in context, and | a two-digit number using the formal | numbers [for example, $1/3 \div 2 = 1/6$] | similar shapes where the scale factor is known or can be found | missing number problems algebraically | kilometres | shapes based on their properties and | |
| taught to: | calculate intervals across zero | written method of short division, interpreting remainders according to | | | | | sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons | |
| | | the context | associate a fraction with division and calculate decimal fraction equivalents [for | | | | | |
| | solve number and practical problems that | | example, 0.375] for a simple fraction [for | | | | | |
| | involve this | | example, 3/8] | | | | | |
| Pupils | | divide numbers up to 4 digits by a | identify the value of each digit in | solve problems involving | find pairs of | recognise that shapes with the | illustrate and name parts of circles, | |
| should be taught to: | | two-digit number using the formal written method of short division. | numbers given to three decimal places and | unequal sharing and grouping using knowledge | numbers that satisfy an | same areas can have different perimeters and vice | including radius, diameter and circumference and know that the | |
| g | | interpreting remainders according | multiply and divide numbers by 10, 100 and | of fractions and multiples. | equation with | versa | diameter is twice the radius | |
| | | to the context | 1000 giving answers up to three decimal places | | two unknowns | | | |
| | | | , | | | | | |
| Pupils should be | | perform mental calculations, including with mixed operations and | multiply one-digit numbers with up to two decimal places by whole numbers | | enumerate possibilities of | recognise when it is possible to use formulae for area and volume of | recognise angles where they meet at a point, are on a straight line, or are | |
| taught to: | | large numbers | two decimal places by whole numbers | | combinations of | shapes | vertically opposite, and find missing | |
| | | | | | two variables. | | angles. | |
| Pupils | | identify common factors, common multiples and prime numbers | use written division methods in cases where the appropriate the decimal. | | | calculate the area of parallel arrange and triangles | describe positions on the full coordinate grid (all four guadrants) | |
| should be taught to: | | multiples and prime numbers | where the answer has up to two decimal places | | | parallelograms and triangles | coordinate grid (all four quadrants) | |
| Pupils | | use their knowledge of the order of | solve problems which require answers | | | calculate, estimate and compare | draw and translate simple shapes on | |
| should be | | operations to carry out calculations | to be rounded to specified degrees of | | | volume of cubes and cuboids using | the coordinate plane, and reflect them in | |
| taught to: | | involving the four operations | accuracy | | | standard units, including cubic centimetres (cm3) and | the axes. | |
| | | solve addition and subtraction | recall and use equivalences between | 4 | | cubic metres (m3), and | | |
| | | multi-step problems in contexts, | simple fractions, decimals and percentages, | | | cubic menes (mo), and | | |
| | | deciding which operations and methods to use and why | including in different contexts. | | | extending to other units [for example, mm3 and km3]. | | |
| Pupils | | solve problems involving addition, | | | | | | |
| should be taught to: | | subtraction, multiplication and division | | | | | | |
| Pupils | | use estimation to check answers to | | | | | | |
| should be taught to: | | calculations and determine, in the context of a problem, an appropriate | | | | | | |
| laugiit to. | | degree of accuracy. | | | | | | |