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| FRACTIONS |  |  |  |  |  |  |  |
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| COUNTING IN FRACTIONAL STEPS |  |  |  |  |  |  |  |
| Early Learning Goal | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
|  |  | Pupils should count in fractions up to 10, starting from any number and using the $1 / 2$ and 2/4 equivalence on the number line (Non Statutory Guidance) | count up and down in tenths | count up and down in hundredths |  |  |  |
| RECOGNISING FRACTIONS |  |  |  |  |  |  |  |
|  | recognise, find and name a half as one of two equal parts of an object, shape or quantity <br> recognise, find and name a quarter as one of four equal parts of an object, shape or quantity | recognise, find, name and write fractions $1 / 3,{ }^{1} / 4,{ }^{2} / 4$ and $3 / 4$ of a length, shape, set of objects or quantity | recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators <br> recognise that tenths arise from dividing an object into 10 equal parts and in dividing one - digit numbers or quantities by 10 . recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators | recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten | recognise and use <br> thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence) <br> recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $>1$ as a mixed number (e.g. $2 / 5+4 / 5=6 / 5=$ $1^{1 / 5}$ ) <br> (also appears in Multiplication and Division of fractions) |  |  |
| COMPARING FRACTIONS |  |  |  |  |  |  |  |
|  |  |  | compare and order unit fractions, and fractions with the same denominators |  | compare and order fractions whose denominators are all multiples of the same number | compare and order fractions, including fractions $>1$ | work interchangeably with terminating decimals and their corresponding fractions (such as 3.5 and $7 / 2$ or 0.375 and $^{3} / 8$ ) <br> understand and use place value for decimals, measures and integers of any size |

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|  |  |  |  |  |  |  | order positive and negative integers, decimals and fractions <br> use the number line as a model for ordering integers, decimals and fractions <br> use the symbols $=, \neq,<$, $>, \leq, \geq$ to make order statements about positive and negative integers, decimals and fractions <br> define percentage as 'number of parts per hundred', and know their decimal and fraction equivalents <br> appreciate the infinite nature of the set of integers <br> use standard units of mass, length, time, money and other measures, including with decimal quantities <br> round numbers and measures to different degrees of accuracy, for example to the nearest whole number or to one decimal place |
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|  |  |  |  |  |  |  | example to the nearest whole number or to one decimal place |
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| ROUNDING INCLUDING DECIMALS |  |  |  |  |  |  |  |
| Early Learning Goal | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
|  |  |  |  | round decimals with one decimal place to the nearest whole number | round decimals with two decimal places to the nearest whole number and to one decimal place | solve problems which require answers to be rounded to specified degrees of accuracy | round numbers and measures to different degrees of accuracy, for example to the nearest whole number or to one decimal place <br> use approximation, through rounding to the nearest whole number or to one decimal place, to estimate answers <br> round numbers and measures to an appropriate degree of accuracy, for example to the nearest whole number or to one decimal place |
| EQUIVALENCE (INCLUDING FRACTIONS, DECIMALS AND PERCENTAGES) |  |  |  |  |  |  |  |
|  |  | Recognise the equivalence of ${ }^{2} / 4$ and $1 / 2$. | recognise and show, using diagrams, equivalent fractions with small denominators | recognise and show, using diagrams, families of common equivalent fractions | identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths | use common factors to simplify fractions; use common multiples to express fractions in the same denomination | work interchangeably with terminating decimals and their corresponding fractions (such as 3.5 and $^{7} / 2$ or 0.375 and $3 / 8$ ) |
|  |  |  |  | recognise and write decimal equivalents of any number of tenths or hundredths | read and write decimal numbers as fractions (e.g. $0.71={ }^{71} / 100$ ) | associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. ${ }^{3} / 8$ ) | understand and use place value for decimals, measures and integers of any size order positive and negative |
|  |  |  |  |  | recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents |  | integers, decimals and fractions |

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|  |  |  |  |  |  |  | number or to one decimal place |
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| MULTIPLICATION AND DIVISION OF FRACTIONS |  |  |  |  |  |  |  |
| Early Learning Goal | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
|  |  | write simple fractions e.g. ${ }^{1} / 2$ of $6=3$ <br> (linked to multiplication skills) |  |  | multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams | multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. ${ }^{1} /{ }^{1} \times 1 / 2=1 / 8$ ) | work interchangeably with terminating decimals and their corresponding fractions (such as 3.5 and $7 / 2$ or 0.375 and $3 / 8$ ) <br> understand and use place value for decimals, measures and integers of any size |
|  |  |  |  |  | recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $2 / 5+4 / 5=6 / 5=$ $1^{1 / 5}$ ) <br> (also appears in recognising fractions) | divide proper fractions by whole numbers (e.g. ${ }^{1} / 3 \div 2=$ $1 / 6$ ) | order positive and negative integers, decimals and fractions <br> use the number line as a model for ordering integers, decimals and fractions <br> use the symbols $=, \neq,<,>$, $\leq, \geq$ to make order statements about positive and negative integers, decimals and fractions <br> define percentage as 'number of parts per hundred', and know their decimal and fraction equivalents <br> appreciate the infinite nature of the set of integers |

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|  |  |  |  |  |  |  | use standard units of mass, length, time, money and other measures, including with decimal quantities <br> round numbers and measures to different degrees of accuracy, for example to the nearest whole number or to one decimal place |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MULTIPLICATION AND DIVISION OF DECIMALS |  |  |  |  |  |  |  |
| Early Learning Goal | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
|  |  |  |  |  |  | multiply one-digit numbers with up to two decimal places by whole numbers | use the four operations, including formal written methods, applied to integers and decimals; multiply proper and improper fractions, and mixed numbers, all both positive and negative |
|  |  |  |  | find the effect of dividing a one- or two-digit number by 10 and 100 , identifying the value of the digits in the answer as ones, tenths and hundredths |  | multiply and divide numbers by 10,100 and 1000 where the answers are up to three decimal places |  |
|  |  |  |  |  |  | identify the value of each digit to three decimal places and multiply and divide numbers by 10,100 and 1000 where the answers are up to three decimal places | use conventional notation for the priority of operations, including brackets <br> recognise and use relationships between the |
|  |  |  |  |  |  | associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375 ) for a simple fraction (e.g. ${ }^{3} / 8$ ) | operations,,$+- \times, \div$, including inverse operations |
|  |  |  |  |  |  | use written division methods in cases where the answer has up to two decimal places |  |
| PROBLEM SOLVING |  |  |  |  |  |  |  |
| Early Learning Goal | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |  |

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