Stanley Grove Primary Academy

Stanley Grove Primary Academy
Skills Map for Maths
Fractions, decimals and percentages

## Bright Futures

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| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| COUNTING IN FRACTIONAL STEPS |  |  |  |  |  |
|  | 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 | recognise, find, name and write fractions and of a length, shape, set of objects or quantity | recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators | recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten | recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence) |  |
|  |  | recognise that tenths arise from dividing an object into 10 equal parts and in dividing one - digit numbers or quantities by 10 . |  |  |  |
| recognise, find and name a quarter as one of four equal parts of an object, shape or quantity |  | recognise and use fractions as numbers: unit fractions and nonunit fractions with small denominators |  |  |  |
| COMPARING FRACTIONS |  |  |  |  |  |
|  |  | compare and order unit fractions, and fractions |  | compare and order fractions whose | compare and order fractions, including |

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| denominators are all <br> multiples of the same <br> number | fractions $>1$ |
| :--- | :--- | number

read, write, order and
compare numbers with the same number of decimal places up to two decimal places

ROUNDING INCLUDING DECIMALS
round decimals with one decimal place to the nearest whole number
read, write, order and compare numbers with up to three decimal places
identify the value of each digit in numbers given to three decimal places


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|  |  |  | recognise and write decimal equivalents to 1/4;1/2;3/4 | recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents | recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 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 as a decimal fraction |  |
| ADDITION AND SUBTRACTION OF FRACTIONS |  |  |  |  |  |
|  |  | add and subtract fractions with the same denominator within one whole (e.g. 5 / 7 + $1 / 7=6 / 7$ ) | add and subtract fractions with the same denominator | add and subtract fractions with the same denominator and multiples of the same number | add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions |
|  |  |  |  | recognise mixed numbers fractions and improper fractions and convert from one form to the other and write mathematical statements > 1 as a |  |

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| mixed number (e.g. $2 /$ |
| :--- |
| $5+4 / 5=6 / 5=11 / 5$ |
| $)$ |

MULTIPLICATION AND DIVISION OF FRACTIONS


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|  |  |  |  | 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 |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8) |
|  |  |  |  | use written division methods in cases where the answer has up to two decimal places |
| PROBLEM SOLVING |  |  |  |  |
|  | solve problems that involve all of the above | solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non- unit fractions where the answer is a | solve problems involving numbers up to three decimal places |  |

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| solve problems which |  |
| :--- | :--- |
| require knowing |  |
| percentage and |  |
| decimal equivalents of |  |
| $1 / 2,1 / 4,1 / 5,2 / 5$, |  |
| $4 / 5$ and those with a |  |
| denominator of a |  |
| multiple of 10 or 25 |  |

VOCABULARY

| Whole | Three quarters | Numerator |
| :--- | :--- | :--- |
| Equal | One third, a third | Denominator |
| Parts | Equivalence | Unit fraction, non-unit <br> fraction |
| One equal parts | Equivalent to | Compare and order |
| A quarter |  | Tenths |
| Two quarters |  |  |


| Equivalent decimals and |
| :--- | :--- |
| fractions |
| Families of common |
| equivalent fractions |

Degree of accuracy
Simplify
Simplest form
Equivalent fractions
Decimal/fraction equivalents

Common factors

Multiples
Tenths and hundredths
Common factors
Proper fractions
Improper fractions
Mixed numbers
Simplest form
Percentage
Half
Quarter
Fifths
Ratio and proportion

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