

## Oakdene Primary Fractions Policy

Updated: June 2020

|  | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: |
| EYFS |  |  |  |
| To solve problems including halves |  | MHalf and share <br> images E.g. put <br> half of the <br> purple spikes <br> on the Gruffalo |  |
| Key Stage 1 |  |  |  |
| To find $\frac{1}{2}$ of a shape | Find half using cubes or everyday items | Find half of variety shapes in different ways |  |
| To find $\frac{1}{2}$ of a number | Find half using cubes or counters |  <br> Find half using cubes or counters | $\begin{aligned} & \frac{1}{2} \text { of } 8=4 \\ & \frac{1}{2} \text { of } 10=5 \end{aligned}$ |


| To find $\frac{1}{4}$ of a shape <br> To find $\frac{3}{4}$ of a shape | Find quarter using cubes or everyday items and show in different ways |  |  |
| :---: | :---: | :---: | :---: |
| To find $\frac{1}{4}$ of a number To find $\frac{3}{4}$ of a number | Find quarter using cubes or everyday items and show in different ways | Find quarter using pictures and show in different ways | $\begin{aligned} & \frac{1}{4} \text { of } 8=2 \\ & \frac{1}{4} \text { of } 12=3 \end{aligned}$ <br> Find quarter using abstract form |
| To find $\frac{1}{3}$ of a shape | Find third using cubes or everyday items and show in different ways | Find third using pictures and show in different ways |  |
| To find $\frac{1}{3}$ of a number | Find third using cubes and show in different ways | Find third using pictures and show in different ways | $\begin{aligned} & \frac{1}{3} \text { of } 9=3 \\ & \frac{1}{3} \text { of } 15=5 \end{aligned}$ <br> Find third using abstract form |

\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|l|}{Key Stage 2} <br>

\hline Recognise, find, and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators \& What fraction are apples? Pears? Limes? \& \begin{tabular}{l}
What fraction is red? <br>
What fraction are square? Circles?

 \& 

What fraction are multiples of 3 ? <br>
13 <br>
23 <br>
9 <br>
21
\end{tabular} <br>

\hline Find unitary fractions of shapes \& Find unitary fractions using cubes or everyday items and show in different ways \&  \& <br>

\hline Find unitary fractions of numbers \& Find unitary fractions using cubes \& | ${ }_{\frac{1}{5}}^{1}$ of 15 |
| :--- |
| Find unitary fractions using pictures | \& \[

$$
\begin{aligned}
& \frac{1}{5} \text { of } 25 \\
& \frac{1}{9} \text { of } 27 \\
& \frac{1}{6} \text { of } 18
\end{aligned}
$$
\] <br>

\hline Find Non-unitary fractions of shapes \& Use part whole models to record what you see \&  \& <br>
\hline
\end{tabular}

| Find Non-unitary fractions of numbers | Link the array to a part whole model used folded paper or practical resources | Link the array to a part whole model | $\begin{array}{ll} \frac{2}{3} & \text { of } 15 \\ \frac{3}{5} & \text { of } 25 \end{array}$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Find increasingly difficult non unitary fractions | Find $3 / 7$ OF 42 and $5 / 6$ of 42 Comapre fraction of same number | Find 2/7 of 28 and 5/7 of 63 Compare fractions using same denominator |  | $\begin{array}{r} \hline \\ \hline \end{array}$ |
| Recognise mixed numbers and improper fractions |  |    $\square$ | $\frac{17}{4}=4 \frac{1}{4}$ |  |




Add and subtract
fractions with the same
denominator

| Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions |  |  | $\begin{aligned} & \frac{1}{3}+\frac{1}{4} \\ & \frac{4}{12}+\frac{3}{12}=\frac{7}{12} \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Calculation <br> Multiplication and division |  |  |  |
| Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams | $\frac{1}{4} \times 5$ | $\frac{1}{4} \times 5$ | $\begin{aligned} & \frac{1}{4} \times 5 \\ & \frac{1}{4}+\frac{1}{4}+\frac{1}{4}+\frac{1}{4}+\frac{1}{4}=\frac{5}{4} \\ & \frac{5}{4}=1 \frac{1}{4} \end{aligned}$ |



