# Highfield Primary School 

Fractions Policy

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|  | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: |
| EYFS |  |  |  |
| To solve problems including halves | Halves of fruit or drinks and other common items | Half and share images E.g. put half of the purple spikes on the Gruffalo |  |
| Key Stage 1 |  |  |  |
| To find $\frac{1}{2}$ of a shape |  | Find half of variety shapes in different ways |  |
| To find $\frac{1}{2}$ of a number | 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 | Find quarter using pictures and show in different ways |  |


| To find $\frac{1}{4}$ of a number <br> 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 |  |  |
| 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 | $\begin{aligned} & \frac{1}{3} \text { of } 9=3 \\ & \frac{1}{3} \end{aligned} \text { of } 15=5$ <br> Find third using abstract form |
| Key Stage 2 |  |  |  |
| Recognise, find, and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators | What fraction are apples? Pears? Limes? | What fraction is red? <br> What fraction are square? Circles? | What fraction are multiples of 3 ? <br> 27 <br> 13 <br> 23 <br> 9 <br> 21 |


| Find unitary fractions of shapes | Find unitary fractions using cubes or everyday items and show in different ways | Find unitary fractions using pictures and show in different ways |  |
| :---: | :---: | :---: | :---: |
| Find unitary fractions of numbers | Find unitary fractions using cubes | $\frac{1}{5}$ of 15 <br> Find unitary fractions using pictures | $\begin{aligned} & \frac{1}{5} \text { of } 25 \\ & \frac{1}{9} \text { of } 27 \\ & \frac{1}{6} \text { of } 18 \end{aligned}$ |
| Find Non-unitary fractions of shapes | Use part whole models to record what you see | Use part whole models to record what you see |  |
| 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 | $\begin{aligned} & \frac{2}{3} \text { of } 15 \\ & \frac{3}{5} \text { of } 25 \end{aligned}$ |
| 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 | Compare fractions |




|  | Family of $\frac{1}{4}$ and $\frac{3}{4}$ | Find a fraction of a shape and cut into equal groups in different ways | Use double number line |
| :---: | :---: | :---: | :---: |
| Recognise and show, using diagrams, families of common equivalent fractions |  | Family of $\frac{1}{5}$ and $\frac{4}{5}$ <br> IIIIIII <br> Family of $\frac{2}{3}$ and $\frac{1}{3}$ |  <br> Use multiplication table |
| Identify name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths | $\begin{aligned} & \frac{12}{36}=\frac{1}{3} \\ & \frac{24}{36}=\frac{2}{3} \end{aligned}$ | $\frac{40}{100}=\frac{4}{10}=\frac{2}{5}$ | Write fractions that are equivalent to $\frac{3}{5}$ $\begin{array}{lll} \frac{30}{50} & \frac{60}{100} & \frac{120}{200} \\ \frac{15}{25} & \frac{21}{35} & \frac{27}{45} \end{array}$ |

## Calculation

Addition and Subtraction of fractions
Add and subtract fractions
with the same denominator
within one whole



