Edward Peake Church of England Middle School

Topic: Fractions

Year: 5

NC Strand: Number

What should I already know? How to recognise and show, using diagrams, families of common equivalent fractions

- How to recognise and show, using diagrams, families of common equivalent nactions
 How to colve problems involving increasingly barder fractions to calculate quantities, and
- How to solve problems involving increasingly harder fractions to calculate quantities, and
- How to use fractions to divide quantities, including non-unit fractions where the answer is a whole
- number
- How to add and subtract fractions with the same denominator
- How to recognise and write decimal equivalents to 1/2, 1/4, 3/4
- How to find the effect of dividing a one- or two-digit number by 10 and 100, identifying the
- How to solve simple measure and money problems involving fractions

What will I know by the end of the unit?

- How to find equivalent fractions
- How to convert improper fractions to mixed numbers
- How to convert mixed numbers to improper fractions
- How to count up and down in a given fraction
- How to compare and order fractions less than one
- How to compare and order fractions more than one
- How to add and subtract fractions with the same denominator
- How to add fractions with different denominators (where one denominator is a multiple of the other)
- How to add three or more fractions (where two denominators are a multiple of the other)
- How to add fractions where the answer is greater than 1
- How to add mixed numbers
- How to subtract fractions with different denominators (where one denominator is a multiple of the other)
- How to subtract mixed numbers
- How to multiply a unit fraction by an integer
- How to multiply a non-unit fraction by an integer
- How to multiply a mixed number by a whole number
- How to find a fraction of an amount, quantities and measures
- How to link fractions of amounts to multiplying fractions to use fractions as operators.

Vocabulary				
Equivalent	Denominator	Common numerator	Add	
Fraction	multiple	Bar model	Take away	
Equal	Integer	represent	difference	
Improper fraction	Convert	visualise	partitioning	
Proper fraction	converting	compare	Multiply	
Mixed number	sequence	order	Repeated addition	
Parts	Increasing	Simplest form	simplify	
Whole	Decreasing	Subtract	Unit fraction	
Numerator	Common denominator	Commutativity	Non-unit fraction	



Key Questions				
How many halves/fifths/sixths/ eights are there	Which method do you prefer when subtracting			
in one whole?	fractions: taking away or finding the difference?			
Can you explain the steps in converting an improper	When can we subtract a fraction without			
fraction to a mixed number? Use the vocabulary:	partitioning the mixed number in a different way?			
numerator, denominator, multiply, add	Why is subtracting the wholes and parts			
If the numerators are the same, how can we	separately easier with some fractions than			
compare our fractions?	others?			

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If the denominators are the same, how can w compare our fractions? Do we always have to find a common denomina When adding, If I have an improper fraction question, should I change it to a mixed number first? Why? What representation could you use to conver- mixed number to an improper fraction?	e ator? in the er t a	Can you sho number line to taking aw Does making subtraction How is mult fractions? What is the 2×34?	w the subtraction as a difference on a ? Bar model? How are these different vay? g the whole numbers larger make the any more difficult? Explain why. iplying fractions similar to adding e same/different between: 34×2and	