

Knowledge Organiser

Year Grou	ıp Sı	ubject		Торіс
6 Mathematics			Fractions Part 1	
The Big Picture				
During this four-week relationship between whole quantity (e.g. i	k unit, childre unit fractior f ¼ of a lengt	en will develop their confidence as and division to work backwa th is 36cm, then the whole leng	e with th Irds by m gth is 36	the fractions. Pupils should use their understanding of the nultiplying a quantity that represents a unit fraction to find the \times 4 = 144cm).
They should practise fractions with commo	with simple f on denomina	fractions and decimal fraction e tors. Denominators of given fra	equivaler actions s	nts to aid fluency, including listing equivalent fractions to identify should not exceed 12, apart from 100 and 1000.
Pupils can explore an with recurring decimation of the second sec	d make conje al equivalent	ectures about converting a sim s, pupils should learn about ro	ple fract unding t	tion to a decimal fraction (e.g. 3 ÷ 8 = 0.375). For simple fractions he decimal to three decimal places.
Pupils should practise fractions with the sar (e.g. 1/2 + 1/8 = 5/8)	e, use and un ne denomina and progress	derstand the addition and sub ator. They should start with fra s to varied and increasingly con	traction ctions w nplex pro	of fractions with different denominators by identifying equivalent here the denominator of one fraction is a multiple of the other oblems.
Pupils should use a va fractions as operators	ariety of imag s, as number	ges to support their understand s, and as equal parts of objects	ding of m s, for exa	nultiplication with fractions. This follows earlier work about mple as parts of a rectangle.
Enquiry Question				
Which numbers appe and denominator? Isa simplified fraction If the HCF of the num Which numners do I Can you estimate wh Can you divide the nu	ear in both lis n always equ nerator and c say when I c nere the fract umberline in	sts? What do we call these? (d livalent to original fraction? W denominator is 1, can it be sim ount in eighths and when I cou tions will be on the number lin to more intervals to place the	common /hy? uplified? unt in qu ne? e fraction	a factors)? What is the highest common factor of the numerator uarters? Is more accurately?
How can you find the	e difference l	between the fractions?		
Numerator		on-unit fraction		
Denominator		Equivalent		Proper Fractions
Unit fraction		Halves		A fraction is a part of a whole.
thirds		Quarters		
fifths		Sixths		
eighths		tenths		3 - numerator = number of parts referred to
Decimal tenths				→ fractions bar = divided by / out of
			-	5
Recognising Fractions			4	Second and the sec
	<u>3</u> <	How many equal parts of the whole are needed? Denominator How many equal parts are in the whole?		$\frac{1}{8} = 1 \div 8 = 0.125$
Comparing Fraction	ns			Improper Fractions and Mixed Numbers
1 3	<mark>2</mark> 3			Improper fractions and mixed numbers show frac- tions more than a whole.
4 Greater than 5	35			







What can my child do at home?

- ✓ Have a look through the Knowledge Organiser and study the key terminology, ensuring that they understand what they mean.
- \checkmark Use the useful links above, particularly if there is a unit that you find more difficult to grasp
- Learn weekly times tables and number facts. These will be tested on the same day as spellings.
- \checkmark Login to Mathletics to revise topics taught.