Sense of Number Visual Fractions Policy

Blanford Mere Primary School October 2014

by Dave Godfrey & Anthony Reddy

For sole use within Blanford Mere Primary School.

'A picture is worth 1000 words!' www.senseofnumber.co.uk



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Guide to using a Visual Fractions Policy

The Sense of Number Visual Fractions Policy provides a visual representation of the progression found within Domain 4: Fractions in the new National Curriculum.

A school branded VFP is created by Dave Godfrey for individual schools when the school logo and school name are added to the footer of each slide.

Typical uses:

Classroom: The slides are printed out (e.g. A4) and the appropriate slides are displayed within each classroom for continual reference or on a working wall. Teacher Reference: The slides are printed out (e.g. 9 slides per A4 page) and inserted in the teacher's planning folder.

Parents: The slides are used to communicate to parents the school's approach to teaching fractions.

Website: Selected slides from the VFP are inserted onto a school's maths webpages. (Please note: the VFP should not be made available for download.)

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Sections in the Visual Fractions Policy

- 1-4 Introduction Slides
- 5-15 General Fractions Slides: Vocab, Defining, Types, 1 Whole, Walls etc.

Pages	Code	Years	Theme
16-23	FA	Y2-Y6	Counting in Fractions
24-27	FB	Y2-Y5	Fractions as a Number
28-36	FC	Y1-Y3	Recognising and naming Unit & Non-Unit Fractions
37-40	FD	Y3-Y5	Ordering Fractions
41-47	FE	FS-Y5	Finding and naming a Fraction of a Quantity
48-61	55	Y1-Y6	Equivalent Fractions
62-65	FG	Y3-Y6	Decimal/Fraction/Percentage Equivalences
66-76	FH	Y2-Y6	Common FDP Equivalences & FDP Walls
77-91	F	Y2-Y6	Fractions to 1
92-95	FJ	Y2-Y5	Fractions Greater than 1
96-116	FK	Y1-Y6	Calculating with Fractions (+, -, x, +)
117-123	FL	Y3-Y6	Division as a Fraction
124-125	FM	Y5-Y6	Jump! and Remainders







Section	FS	Y 1	Y2	Y 3	¥4	Y5	Y6
FA: Counting			16,17	18,19	20,21	22,23	
FB: Number			24	25	26	27	
FC: Recognising		28,29	30,31	32-35	36		
FD: Ordering				37,38		39,40	
FE: Quantity	41	42,43	44	45	46	47	
FF: Equivalence			48-50	51-54	55-59	60	61
FG: FDP Equiv.				62	63	64,65	
FH: Common FDP					66	67-70	71-76
FI: Fractions to 1			77,78	79-83	84-88	89,90	91
FJ:> 1			92	93	94	95	
FK: Addition		96	97	98	99	100	101,102
FK: Subtraction				103	104	105	106,107
FK: Multiplication						108,109	110,111
FK: Division						112,113	114-116
FL: Div. as a Fractn.				117	118,119	120,121	122,123
FM: Extras						124	125











B

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Fraction Wall







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Fraction Wall







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A Fraction of a Whole







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FC: Recognising Fractions















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FC: Recognising Fractions ЗЬ

















FC: Recognising Fractions 3c Eight Equal Eighths!













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FE: Fraction of a Quantity 5 360_{chunks}





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	2	3	
2	4	6	8



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2 6	4 12



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FH: Common FDP Equivalences





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FH: Common FDP Equivalences **6**d

- $\frac{1}{7}$ = 0.142857 = 14.285714%
- $\frac{2}{7}$ = 0.285714 = 28.571428%
- $\frac{3}{7}$ = 0.428571 = 42.857142%
- $\frac{4}{7}$ = 0.571428 = 57.142857%
- $\frac{5}{7}$ = 0.714285 = 71.428571%
- $\frac{6}{7}$ = 0.857142 = 85.714285%



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FH: Common FDP Equivalences





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F: Fractions to 1 2b







Thirds

F: Fractions to 1







Fifths





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F: Fractions to 1 3c

 $\frac{8}{8}$ = 1 Whole 7 8 8 8 8





Eighths







F: Fractions to 1 3e Make a Whole!









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F: Fractions to 1 4b







Ninths

F: Fractions to 1 4c Halves and Quarters





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F: Fractions to 1







Fifths

F: Fractions to 1 5b







Thirds





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FK: Calculating with Fractions 6xb

"If I had three quarters of a chocolate bar, and gave you half of what I had, how much of the whole bar would you get? Answer: Three eighths."







FK: Calculating with Fractions 5:a Grouping Model - Dividing by a Fraction



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FK: Calculating with Fractions 5:b Grouping Model - Dividing by a Fraction







FK: Calculating with Fractions 6+a Grouping Model - Dividing by a Fraction







FK: Calculating with Fractions 6+b Grouping Model - Dividing by a Fraction









FK: Calculating with Fractions 6÷c Sharing Model - Dividing a fraction by a whole number "If I share a third into 2 equal = 6 amounts, how much in each group?" Answer: A stath **Blanford Mere Primary School** Blanford Mere Primary School Visual Fractions Policy © Sense of Number 2014 Bespoke Graphic Design by Dave Godfrey - www.senseofnumber.co.uk





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FL: Division as a Fraction ^{6b} Mixed Number Model $\frac{1}{12}$ of 9 = 9 + 12 = $\frac{9}{10} = \frac{3}{4}$



(9 twelfths = 3 quarters)



(0.75)

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FM: Remainders = 5r2





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