

FRACTIONS AND DECIMALS




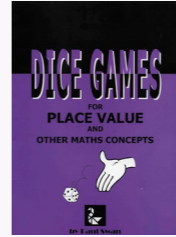
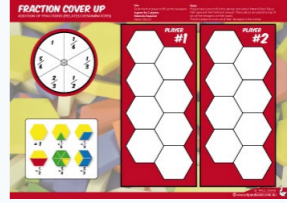
CURRICULUM THREADS

Kindy	Pre-Primary	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
THREAD A DEVELOPING UNDERSTANDING	OPTIONAL Exposure Tasks	Recognise and describe one-half as one of two equal parts of a whole ACMNA016	Recognise and interpret common uses of halves, quarters and eighths of shapes and collections ACMNA033	Model and represent unit fractions including $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{5}$ and their multiples to a complete whole ACMNA058	Count by quarters halves and thirds, including with mixed numerals. Locate and represent these fractions on a number line ACMNA078	Compare and order common unit fractions and locate and represent them on a number line ACMNA102	Compare fractions with related denominators and locate and represent them on a number line ACMNA125
THREAD B EQUIVALENT FRACTIONS					Investigate equivalent fractions used in context ACMNA077		Make connections between equivalent fractions, decimals and percentages ACMNA131
THREAD C PLACE VALUE DECIMALS					Recognise that the place value system can be extended to tenths and hundredths. Make connections between fractions and decimal notation ACMNA079	Recognise that the place value system can be extended beyond hundredths ACMNA104	Solve problems involving addition and subtraction of fractions with the same or related denominators ACMNA126
						Compare, order and represent decimals ACMNA105	Find a simple fraction of a quantity where the result is a whole number . . . ACMNA127
THREAD D OPERATIONS $+$ $-$ \times \div						Investigate strategies to solve problems involving addition and subtraction of fractions with the same denominator ACMNA103	Add and subtract decimals . . . ACMNA128
							Multiply decimals by whole numbers and perform divisions by non-zero whole numbers where the results are terminating decimals, with and without digital technologies ACMNA129
							Multiply and divide decimals by powers of 10 ACMNA130



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Suggested Dr Paul Swan Materials							
<p> ● Book ● Game ● Downloadable ● Video ● Manipulative Material ● Interactive Material ● Other </p>							
				<ul style="list-style-type: none"> ● Pattern Blocks Book  ● Fraction Cover Up  ● POP: Fractions ● POP: Fractions EXTENSION OPTIONAL ● POP: Fractions 2 	<ul style="list-style-type: none"> ● Playing with Place Value  ● Dice Games for Place Value  ● Place Value Video Playlist ● Arrow Cards: Decimals 	<ul style="list-style-type: none"> ● Fraction Cover Up  	<ul style="list-style-type: none"> ● Pattern Block Fractions ● Rod Fractions ● Fraction Decimal Percentage Game ● Equivalent Fraction Match 1 & 2 ● Halving, Quarter, One-Eight, One-Tenth Games ● POP: Fraction Decimal Percentage First Steps Num. Book 1: <ul style="list-style-type: none"> Ch 4: KU 4 pg 126 Ch 4: KU 5 pg 134
Other Helpful Sources							
	<p>Exposure Tasks:</p> <ul style="list-style-type: none"> Play involving sharing e.g. Cutting up the cake and sharing so each person can have a piece. Use the language of sharing. 	<p>First Steps A</p> <p>- Number Book 1:</p> <ul style="list-style-type: none"> Ch 4: KU 1 pg 92 Ch 4: KU 3 pg 116 	<p>First Steps A</p> <p>- Number Book 1:</p> <ul style="list-style-type: none"> Ch 4: KU 2 pg 104 Ch 4: KU 3 pg 116 	<p>First Steps A</p> <p>- Number Book 1:</p> <ul style="list-style-type: none"> Ch 4: KU 2 pg 104 Ch 4: KU 3 pg 116 	<p>First Steps Num. Book 1: A</p> <ul style="list-style-type: none"> Ch 4: KU 5 pg 134 <p>First Steps Num. Book 1: B</p> <ul style="list-style-type: none"> Ch 4: KU 4 pg 126 <p>First Steps Num. Book 1: C</p> <ul style="list-style-type: none"> Ch 4: KU 6 pg 144 	<p>First Steps Num. Book 1:</p> <ul style="list-style-type: none"> Ch 4: KU 5 pg 134 <p>First Steps Num. Book 1:</p> <ul style="list-style-type: none"> Ch 3: KU 3 pg 32 Ch 3: KU 7 pg 68 Ch 3: KU 8 pg 74 Ch 4: KU 6 pg 144 <p>First Steps Num. Book 1:</p> <ul style="list-style-type: none"> Ch 4: KU 5 pg 134 <p>First Steps Num. Book 2:</p> <ul style="list-style-type: none"> Ch 4: KU 7 pg 156 	<p>First Steps Num. Book 1:</p> <ul style="list-style-type: none"> Ch 3: KU 7 pg 68 Ch 4: KU 6 pg 144 Ch 4: KU 7 pg 152 <p>First Steps Num. Book 1:</p> <ul style="list-style-type: none"> Ch 3: KU 7 pg 68 Ch 4: KU 2 pg 104 Ch 4: KU 5 pg 134 <p>First Steps Num. Book 2:</p> <ul style="list-style-type: none"> Ch 4: KU 3 pg 114 Ch 4: KU 4 pg 122 Ch 4: KU 5 pg 132 Ch 4: KU 7 pg 156 Ch 4: KU 8 pg 162 Ch 4: KU 10 pg 182
<p>NZ Maths: Picture Books (Various picture books classified by level)</p>							
<p>NZ Maths: Number Strategies Units of Work</p>							
<p>NZ Maths: Number Knowledge Lessons</p>							

