

PATTERNS & ALGEBRA

CURRICULUM THREADS

Kindy	Pre-Primary	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
THREAD 1 DESCRIBE PATTERNS	Sort and classify familiar objects and explain the basis for these classifications. Copy, continue and create patterns with objects and drawings ACMNA005	Investigate and describe number patterns formed by skip counting and patterns with objects ACMNA018	Describe patterns with numbers and identify missing elements ACMNA035	Describe, continue, and create number patterns resulting from performing addition or subtraction ACMNA060	Explore and describe number patterns resulting from performing multiplication ACMNA081	Describe, continue and create patterns with fractions, decimals and whole numbers resulting from addition and subtraction ACMNA107	Continue and create sequences involving whole numbers, fractions and decimals. Describe the rule used to create the sequence ACMNA133
THREAD 2A + - OPERATIONS			Solve problems by using number sentences for addition or subtraction ACMNA036		Find unknown quantities in number sentences involving addition and subtraction and identify equivalent number sentences involving addition and subtraction ACMNA083		Explore the use of brackets and order of operations to write number sentences $+ - \times \div ()$
THREAD 2B X ÷ OPERATIONS ORDER OF OPERATIONS					Solve word problems by using number sentences involving multiplication or division where there is no remainder ACMNA082	Find unknown quantities in number sentences involving multiplication and division and identify equivalent number sentences involving multiplication and division ACMNA121	ACMNA134

Suggested Dr Paul Swan Materials

● Book
 ● Game
 ● Downloadable
 ● Video
 ● Manipulative Material
 ● Interactive Material
 ● Other

Other Helpful Sources	● Skip Trip 	● Treasure Trove (available via Abacus Educational) 	● Patterns in Mathematics 8 - 10 	● Patterns in Mathematics 11+ 		
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First Steps: Number Bk 2 Ch 5: KU 1 pg 200 KU 2 pg 212	First Steps: Number Bk 2 Ch 5: KU 1 pg 200 KU 2 pg 212 KU 3 pg 224 KU 5 pg 242	First Steps: Number Bk 2 Ch 5: KU 1 pg 200 KU 3 pg 224 KU 4 pg 234	First Steps: Number Bk 2 Ch 5: KU 1 pg 200 KU 3 pg 224 KU 4 pg 234 KU 5 pg 242	First Steps: Number Bk 2 Ch 5: KU 1 pg 200 KU 3 pg 224 KU 4 pg 234 KU 5 pg 242 KU 6 pg 250	First Steps: Number Bk 2 Ch 5: KU 1 pg 200 KU 3 pg 224 KU 4 pg 234 KU 5 pg 242 KU 6 pg 250	First Steps: Number Bk 2 Ch 5: KU 1 pg 200 KU 3 pg 224 KU 4 pg 234 KU 5 pg 242 KU 6 pg 250
Math Their Way Chapter 9 Center for Innovation in Education, Inc. http://www.center.edu/MTW-book/09-NumberSymbol.pdf				First Steps: Number Bk 2 Ch 3: KU 7 pg 66 KU 8 pg 74 Ch 4: KU 1 pg 98 KU 2 pg 106 KU 5 pg 132	First Steps: Number Bk 2 Ch 3: KU 7 pg 66 KU 8 pg 74 Ch 4: KU 1 pg 98 KU 3 pg 114 KU 4 pg 122 KU 5 pg 132 KU 6 pg 144 Ch 5: KU 3 pg 224 KU 4 pg 234	
FUSE: Online Interactive https://fuse.education.vic.gov.au/Search/Results?AssociatedPackageId=&QueryText=patterns&SearchScope=Teacher	Scootle: Online Interactive http://www.scootle.edu.au/ec/acSubject?name=%22Mathematics%22	NZ Maths: Patterns & Algebra Units of Work https://nzmaths.co.nz/patterns-and-relationships-units-work	NZ Maths: Patterns & Algebra Picture Books https://nzmaths.co.nz/picture-books-algebra-content			

