

Number Mental							
F	1	2	3	4	5	6	7
Counting (F) Addition and Subtraction (Mostly finished Yr 3) Then all 4 operations in yr 6/7							
<p>Establish counting to and from 20, moving from any starting point (ACMNA001)</p> <p>Connect number names, numerals and quantities, including zero, initially up to 10 and then beyond (ACMNA002)</p> <p>Subitise small collections of objects (ACMNA003)</p>	<p>Counting Numbers to 100</p> <p>Represent and solve simple addition and subtraction problems using a range of strategies including:</p> <p>counting on,</p> <p>partitioning and rearranging parts (ACMNA015)</p>	<p>Explore the connection between addition and subtraction (ACMNA029)</p> <p>Solve simple addition and subtraction problems using a range of efficient mental and written strategies (ACMNA030)</p>	<p>Recognise and explain the connection between addition and subtraction (ACMNA054)</p> <p>Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation (ACMNA055)</p>			<p>Select and apply efficient mental ... strategies and ... to solve problems involving all four operations with whole numbers (ACMNA123)</p>	<p>Apply the associative, commutative and distributive laws to aid mental ... computation (ACMNA151)</p>
Multiplication and Division							
		<p>Recognise and represent multiplication as repeated addition, groups and arrays (ACMNA031)</p> <p>Recognise and represent division as grouping into equal sets and solve simple problems using these representations (ACMNA032)</p>	<p>Recall multiplication facts of two, three, five and ten and related division facts (ACMNA056)</p> <p>Represent and solve problems involving multiplication using efficient mental and written strategies and appropriate digital technologies (ACMNA057)</p>	<p>Recall multiplication facts up to 10×10 and related division facts (ACMNA075)</p> <p>Develop efficient mental and written strategies and use appropriate digital technologies for multiplication and for division where there is no remainder (ACMNA076)</p>	<p>... factors and multiples of whole numbers ... (ACMNA098)</p> <p>Solve problems involving multiplication of large numbers by one- or two-digit numbers using efficient mental, ... strategies. (ACMNA100)</p> <p>Solve problems involving division by a one digit number, including those that result in a remainder (ACMNA101)</p>		<p>Find percentages of quantities and express one quantity as a percentage of another, with and without digital technologies. (ACMNA158)</p>

NAPLAN OVERLAY

Yr 3 2010 q 1010 and yr 5 q5 money subtraction Yr 3 2010 q 12 division Yr 3 2010 q 13 addition Yr 3 2010 q 33 multiplication/addition Yr 3 2010 q 34 multiplication subtraction	Yr 5 2010 q 1 array multiplication Yr 5 2010 q 17 and Yr 7NC q 5 mental strategy larger numbers Yr 5 2010 q 20 mult 36 x 3 in context Yr 5 2010 q 26 Yr 7NC mult and sub Yr 5 2010 q 29 Yr 7 q 16 add mult and greater than less than symbol	Many basic fact questions embedded in word problems
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LITERACIES OVERLAY (ORAL, WRITTEN, VISUAL)

Add Combine Altogether Take away Difference Subtract Array	Marshall & Swan, + - Concept stories (games)	Product factor	greater < > symbols (see yr 5 2010 q 29)	Marshall & Swan, x ÷ Concept stories (games)		
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TASKS ACTIVITIES

Dice Dilemmas Dice Dazzlers Dice games for PV Card Capers Cards on the Table Domino Deductions Calculators in Classrooms (Across the years)		Arrays	Array game See p. 32, Swan, P. (2007). <i>Tackling Tables: Using a strategies approach.</i>	Swan, P. (2007). <i>Tackling Tables: Using a strategies approach.</i>	Swan, P. (2009) <i>Dice games for tables.</i> (Best suited for cluster approach to tables and doubling strategy)	
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RESOURCES

Ten sided dice Six sided dice Playing Cards Blank Cards Dominoes Track/Board games 10 mm Grid paper Muffin tray (Across the years)	Swan, P. (2010) <i>Maths Basic Facts: Addition Subtraction & Beyond</i> (CD)	Swan, P. (2012) <i>Make to Ten</i> (roller coaster game) Abacus Ed Games <i>Space Race: Addition Treasure Trove</i> (multiples, skip counting) <i>Pitstop</i> (Add sub)	Swan, P. (2011) <i>Take off</i> (subtraction game) Rowco card game (see pp. 46 – 48 Cards on the table)	Swan, P. (2010) <i>Maths Basic Facts: Multiplication Division & Beyond</i> (CD)	Swan, P. (2011) <i>Flushed</i> (x2–9 game) Swan (2011). <i>Gold Rush</i> (x, –, game) Division Deck (p. 26 Cards on the Table) Abacus Ed Games <i>Division Decision</i> (Single digit division with a remainder)	Combo basic fact card game (See Cards on the table, p. 42 – 45)	Abacus Ed Games <i>Fracto Decimo Percento</i>
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