

**Scoil Chiarain Naofa National School – Mathematics Plan**

		<b>Junior Infants</b>		* common to other strands
<b>Strands</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
Early Mathematical Activities	Classifying	<ul style="list-style-type: none"> <li>Classify objects on the basis of one attribute, such as colour, shape, texture or size.</li> <li>Identify the complement of a set.</li> </ul>	Page 20	<ul style="list-style-type: none"> <li>Matching - Pages 4-11.</li> <li>*Counting: pages 40, 41, 48, 49, 56, 57, 68, 69, 78, 79.</li> </ul>
	Matching	<ul style="list-style-type: none"> <li>Match equivalent and non-equivalent sets using one-to-one correspondence.</li> </ul>	Page 20	<ul style="list-style-type: none"> <li>Sets: pages 12-19.</li> <li>Equivalent Sets - Pages 20-24.</li> <li>* Non-equivalent Sets – Pages 25-29.</li> </ul>
	Comparing	<ul style="list-style-type: none"> <li>Compare objects according to length, width, height, weight, quantity, thickness or size.</li> <li>Compare sets without counting.</li> </ul>	Page 21	<ul style="list-style-type: none"> <li>Length/Height/Width: pages 30-35.</li> <li>Size: pages 36-38.</li> <li>Weight page 46.</li> </ul>
	Ordering	<ul style="list-style-type: none"> <li>Order objects according to length or height.</li> <li>Order sets without counting.</li> </ul>	Page 21	<ul style="list-style-type: none"> <li>* Length/Height/Width: pages 30-35.</li> </ul>
Number	Counting	<ul style="list-style-type: none"> <li>Count numbers of objects in a set 1-10.</li> </ul>	Page 22	<ul style="list-style-type: none"> <li>Equivalent Sets - Pages 20-24.</li> <li>Non-equivalent Sets – Pages 25-29.</li> <li>* Numerals 2, 3: page 65.</li> </ul>
	Comparing and ordering	<ul style="list-style-type: none"> <li>Compare equivalent and non equivalent sets 1-5 by matching without using symbols.</li> <li>Order sets of objects by number 1-5.</li> <li>Use the language of ordinal number: first, last.</li> </ul>	Page 22	<ul style="list-style-type: none"> <li>Size: pages 36-38.</li> <li>*Counting: pages 40, 41, 48, 49, 56, 57, 68, 69, 78, 79.</li> <li>Ordering of Number 1, 2, 3, 4, 5: page 100.</li> <li>Ordering of Objects 1, 2, 3, 4, 5: page 101.</li> </ul>
	Analysis of number (Combining, Partitioning and Numeration)	<ul style="list-style-type: none"> <li>Explore the components of number 1-5.</li> <li>Combine sets of objects, totals 5.</li> <li>Partition sets of objects 1-5.</li> <li>Develop an understanding of the conservation of number 1-5.</li> <li>Read, write and order numerals 1-5.</li> <li>Identify the empty set and the numeral zero.</li> <li>Tell at a glance the number of objects in a set, 1-5</li> <li>Solve simple oral problems, 0-5.</li> </ul>	Page 23-25	<ul style="list-style-type: none"> <li>N numeral 1, 2, 3, 4, 5: pages 44, 45, 50-53, 60, 61, 63, 64, 65, 70, 71, 73- 75, 80, 81, 83-85.</li> <li>Writing Numeral 1, 2, 3, 4, 5: page 54, 55, 62, 72, 82.</li> <li>N numeral 0: page 88.</li> <li>Numerals 0-5: pages 89, 90, 93-95.</li> <li>Writing Numerals 0-5: page 92.</li> <li>Partitioning: pages 102-105.</li> <li>Combining: pages 106-111.</li> </ul>
Algebra	Extending Patterns (Integration)	<ul style="list-style-type: none"> <li>Identify, copy and extend patterns in colour, shape and size.</li> </ul>	Page 26	<ul style="list-style-type: none"> <li>Identifying Patterns: page 39.</li> <li>2-D shapes/Pattern: page 59.</li> <li>2-D shapes-rectangle: pages 98,99.</li> <li>Pattern: page 120.</li> <li>Numerals 1, 2, 3, 4: page 73.</li> </ul>

<b>Junior Infants</b>				
<b>Strands</b>	<b>Strand Units</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
Shape and Space	Spatial Awareness	<ul style="list-style-type: none"> <li>Explore, discuss, develop and use vocabulary of spatial relations.</li> </ul>	Page 28	<ul style="list-style-type: none"> <li>Vocabulary: between, underneath, on top of, around, through, left and right. (Use of simple directions using the above.)</li> </ul>
	3-D shapes	<ul style="list-style-type: none"> <li>Sort 3-D shapes, regular and irregular.</li> <li>Solve tasks and problems involving shape.</li> </ul>	Page 28	<ul style="list-style-type: none"> <li>3-D shapes/numeral 5: pages 86,</li> <li>* 3-D shapes: page 87.</li> </ul>
	2-D shapes (Integration)	<ul style="list-style-type: none"> <li>Sort and name 2-D shapes: square, circle, triangle, rectangle.</li> <li>Use suitable structured materials to create pictures.</li> <li>Solve problems involving shape.</li> </ul>	Page 29	<ul style="list-style-type: none"> <li>2-D shapes: circle – pages 42, 43.</li> <li>2-D shapes: square - page 58.</li> <li>2- D shapes/ pattern: page 59.</li> <li>2-D shapes: Triangle pages 66, 67.</li> <li>* 2-D shapes- rectangle – pages 98,99.</li> </ul>
Measures	Length (Integration)	<ul style="list-style-type: none"> <li>Develop and understanding of the concept of length through exploration, discussion and use of appropriate vocabulary.</li> <li>Compare and order objects according to length or height.</li> </ul>	Page 30	<ul style="list-style-type: none"> <li>Length/Height/Width: pages 30-35.</li> <li>Size: pages 36-38.</li> <li>Length: pages 30 –33.</li> </ul>
	Weight (Integration)	<ul style="list-style-type: none"> <li>Develop and understanding of the concept of weight through exploration, handling of objects, and the use of appropriate vocabulary.</li> <li>Compare objects according to weight.</li> </ul>	Page 31	<ul style="list-style-type: none"> <li>* Weight: pages 46, 47.</li> </ul>
	Capacity	<ul style="list-style-type: none"> <li>Develop and understanding of the concept of capacity through exploration and the use of appropriate vocabulary.</li> <li>Compare containers according to capacity.</li> </ul>	Page 32	<ul style="list-style-type: none"> <li>Capacity: pages 76, 77.</li> </ul>
	Time (Integration)	<ul style="list-style-type: none"> <li>Develop and understanding of the concept of time through the use of appropriate vocabulary.</li> <li>Sequence daily events or stages in a story.</li> </ul>	Page 33	<ul style="list-style-type: none"> <li>Time: pages 96, 97.</li> </ul>
	Money	<ul style="list-style-type: none"> <li>Recognise and use coins (up to 5 cents).</li> <li>Solve practical tasks and problems using money.</li> </ul>	Page 34	<ul style="list-style-type: none"> <li>Money: pages 112-116.</li> </ul>
Data	Recognising and interpreting data	<ul style="list-style-type: none"> <li>Sort and classify sets of objects by one criterion</li> <li>Match sets, equal and unequal</li> <li>Represent and interpret a set of simple mathematical data using real objects and pictures</li> </ul>	Page 35	<ul style="list-style-type: none"> <li>Sets: pages 12-19.</li> <li>Equivalent Sets - Pages 20-24.</li> <li>Non-equivalent Sets – Pages 25-29.</li> <li>Length/Height/Width: pages 30-35.</li> <li>2-D shapes: circle – pages 42, 43.</li> <li>2-D shapes –square: page 58.</li> <li>2-D shapes: Triangle page 66.</li> <li>3-D shapes/numeral 5: pages 86.</li> <li>3-D shapes: page 87.</li> </ul>

**Senior Infants**

\* common to other strands

Strands	Strand Unit	Content/Learning Objectives	Curriculum	Resource: Maths Matters
Early Mathematical Activity (Revision)	Classifying, Matching (Revision)	<ul style="list-style-type: none"> <li>• Classify objects on the basis on one attribute.</li> <li>• Identify the complement of a set.</li> <li>• Match equivalent and non-equivalent sets.</li> </ul>	(Revision)	<ul style="list-style-type: none"> <li>• (Revision)</li> <li>• Matching – pages 4, 5, 8, 9</li> <li>• Classifying – pages 6, 7.</li> <li>• Sets: page 66</li> </ul>
Number	Counting	<ul style="list-style-type: none"> <li>• Count the number of objects in a set,</li> <li>• 0-20.</li> </ul>	Page 22	<ul style="list-style-type: none"> <li>• Counting – pages 15, 16,18,19,21, 26, 35, 38, 39,49, 90</li> <li>• Counting/Combining: page 93</li> </ul>
	Comparing and ordering	<ul style="list-style-type: none"> <li>• Compare equivalent and non-equivalent sets 0-10 by matching.</li> <li>• Order sets of objects by number 0-10.</li> <li>• Use the language of ordinal number: first, second, third, last.</li> </ul>	Page 22	<ul style="list-style-type: none"> <li>• Comparing – pages 71, 72,</li> <li>• Comparing Number: page 110</li> <li>• Ordinal Numbers – pages 102, 103.</li> </ul>
	Analysis of number (Combining, Partitioning and Numeration)	<ul style="list-style-type: none"> <li>• Explore the components of number 1-50.</li> <li>• Combine sets of objects, totals to 10.</li> <li>• Partition sets of objects, 0-10.</li> <li>• Use the symbols + and – to construct word sentences involving addition.</li> <li>• Develop an understanding of the conservation of number 0-10.</li> <li>• Read, write and order numbers 0-10.</li> <li>• Identify the empty set and numeral zero.</li> <li>• Estimate the number of objects in a set, 2-10.</li> <li>• Solve simple oral and pictorial problems , 0-10.</li> </ul>	Page 23-25	<ul style="list-style-type: none"> <li>• Numeral: 1-10: pages 11-14, 17, 28, 29, 32, 33,</li> <li>• Numeration: page 34</li> <li>• Analysis of Number: pages 41, 50-59, 67, 113.</li> <li>• Analysis of number/time/shape-page 117</li> <li>• Combining: pages 22-25,31,47,91,92,94-97, 93, 106, 116.</li> <li>• The Story of 8: page 101</li> <li>• Combining 3 sets – page 104</li> <li>• Problem Solving: 86-88, 111</li> <li>• Commutative addition – pages 99,100.</li> <li>• The Number line – pages 98, 105</li> </ul>
Algebra	Extending Patterns (Integration)	<ul style="list-style-type: none"> <li>• Identify, copy and extend patterns in colour, shape, size and number (3-4 elements).</li> <li>• Discover different arrays of the same number.</li> <li>• Recognise patterns and predict subsequent numbers.</li> </ul>	Page 26	<ul style="list-style-type: none"> <li>• Pattern - page 10</li> </ul>

<b>Senior Infants</b>				
<b>Strands</b>	<b>Strand Units</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
Shape and space	Spatial Awareness	<ul style="list-style-type: none"> <li>Explore, discuss, develop and use the vocabulary of spatial relations.</li> </ul>	Page 28	<ul style="list-style-type: none"> <li>Spatial Awareness – pages 42,107</li> <li>Spatial Relations – page 89</li> </ul>
	3-D shapes	<ul style="list-style-type: none"> <li>Sort, describe and name 3-D shapes: cube, cuboid, sphere and cylinder.</li> <li>Combine 3-D shapes to make other shapes.</li> <li>Solve tasks and problems involving shape.</li> </ul>	Page 29	<ul style="list-style-type: none"> <li>3-D shapes – pages 68-70, 119.</li> </ul>
	2-D shapes (Integration)	<ul style="list-style-type: none"> <li>Sort, describe and name 2-D shapes: square, circle, triangle, rectangle.</li> <li>Combine and divide 2-D shapes to make larger or smaller shapes.</li> <li>Solve problems involving shape and space.</li> <li>Give simple moving and turning directions.</li> </ul>	Page 29	<ul style="list-style-type: none"> <li>2-D shapes – pages 43-46, 120</li> </ul>
Measures	Length (Integration)	<ul style="list-style-type: none"> <li>Develop and understanding of the concept of length through exploration, discussion, and use of appropriate vocabulary.</li> <li>Compare and order objects according to length or height.</li> <li>Estimate and measure length in non-standard units.</li> <li>Select and use appropriate non-standard units to measure length, width or height. Discuss reasons for choice.</li> </ul>	Page 30	<ul style="list-style-type: none"> <li>Length – pages 82-84</li> <li>Length/Size: pages 79, 80</li> <li>Width: page 81</li> </ul>
	Weight (Integration)	<ul style="list-style-type: none"> <li>Develop and understanding of the concept of weight through exploration, handling of objects and use of appropriate vocabulary.</li> <li>Compare and order objects according to weight.</li> <li>Estimate and weigh in non-standard units</li> <li>Select and use appropriate non-standard units to weigh objects.</li> </ul>	Page 31	<ul style="list-style-type: none"> <li>Weight – pages 108, 109.</li> </ul>
	Capacity	<ul style="list-style-type: none"> <li>Develop and understanding of the concept of capacity through exploration and the use of appropriate vocabulary</li> <li>Compare and order containers according to capacity.</li> <li>Estimate and measure capacity in non-standard units.</li> <li>Select and use appropriate non-standard units to measure capacity.</li> </ul>	Page 32	<ul style="list-style-type: none"> <li>Capacity – pages 114, 115</li> </ul>

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<b>Strands</b>	<b>Strand Units</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
	Time (Integration)	<ul style="list-style-type: none"> <li>• Develop and understanding of the concept of time through the use of appropriate vocabulary.</li> <li>• Sequence daily and weekly events or stages in a story.</li> <li>• Read time in one-hour intervals.</li> </ul>	Page 33	<ul style="list-style-type: none"> <li>• Time – pages 60-65</li> </ul>
	Money	<ul style="list-style-type: none"> <li>• Recognise coins up to 20cents and use coins up to 10 cents.</li> <li>• Solve practical tasks and problems using money.</li> </ul>	Page 34	<ul style="list-style-type: none"> <li>• Money – pages 73-78, 118</li> </ul>
Data	Recognising and interpreting data	<ul style="list-style-type: none"> <li>• Sort and classify sets of objects by one and two criteria.</li> <li>• Represent and interpret data in two rows or columns using real objects, models and pictures.</li> </ul>	Page 35	<ul style="list-style-type: none"> <li>• Data – page 27, 30, 36, 37, 40, 48, 85, 112</li> </ul>

**First Class**

\* common to other strands

<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
Number	Counting and numeration	<ul style="list-style-type: none"> <li>Count the numbers of objects in a set.</li> <li>Read, write and order numerals 0-99.</li> <li>Estimate the number of objects in a set 0-20.</li> </ul>	Page 40	<ul style="list-style-type: none"> <li>Counting: pages 4, 6.</li> <li>Numbers (11-20): pages 56-58.</li> <li>Numbers (30-70): pages 104.</li> <li>Game: pages 108, 109.</li> </ul>
	Comparing and Ordering	<ul style="list-style-type: none"> <li>Compare equivalent and non-equivalent sets 0-20.</li> <li>Order sets of objects by number.</li> <li>Use the language of ordinal number, first to tenth.</li> </ul>	Page 41	<ul style="list-style-type: none"> <li>Comparing: pages 18-21, 68, 69.</li> <li>Ordinal Number: pages 52, 53.</li> <li>Ordering Numbers: pages 103,105.</li> <li>*Weight: 132, 133.</li> <li>Length: pages 88-90.</li> <li>Grouping Numbers: pages 92-95.</li> </ul>
	Place Value (addition and subtraction)	<ul style="list-style-type: none"> <li>Explore, identify and record place value 0=99.</li> </ul>	Page 41	<ul style="list-style-type: none"> <li>Tens and Units: pages 96-101, 106, 107, 110, 111, 125, 126.</li> </ul>
	Operations	<ul style="list-style-type: none"> <li><b>Addition:</b> Develop and understanding of addition by combining or partitioning sets, use concrete materials 0-20.</li> <li>Explore, develop and apply the commutative, associative and zero properties of addition.</li> <li>Develop and/or recall mental strategies for addition facts within 20.</li> <li>Construct number sentences and number stories; solve problems involving addition within 20.</li> <li>Add number without and with renaming within 99.</li> <li>Explore and discuss repeated addition and group counting.</li> <li><b>Subtraction:</b> Develop an understanding of subtraction as deducting, as complementing and as difference 0-20.</li> <li>Develop and/or recall mental strategies for subtraction 0-20.</li> <li>Construct number sentences and number stories; solve problems involving subtraction.</li> <li>Estimate differences within 99.</li> <li>Use the symbols +,-,= .</li> <li>Solve one-step problems involving addition and subtraction.</li> </ul>	Pages 42-45	<ul style="list-style-type: none"> <li>Addition: pages 7, 10, 11.</li> <li>*Addition/Data: pages 13-15.</li> <li>Commutative Property: pages 22, 23.</li> <li>Addition Combinations pages 24, 25</li> <li>Number Sentences: pages 8, 9, 37.</li> <li>Adding Three Numbers: pages 48-50,72.</li> <li>Addition Within 20: page 59.</li> <li>Addition Within 20 pages 61- 63.</li> <li>Doubles/Near Doubles: page 60.</li> <li>Adding Three Numbers/Data: page 75.</li> <li>Adding in Tens: page 127.</li> <li>Adding Tens and Units: pages 129-131.</li> <li>Renaming: pages 134, 135.</li> <li>Adding with Renaming: pages 136-139.</li> <li>Zero: pages 78-80.</li> <li>Odd and Even Numbers: pages 84, 85.</li> <li>Money: pages 64-66, 115-118.</li> <li>Subtraction: pages 26-31.</li> <li>Subtraction: pages 36, 141-143.</li> <li>Addition/Subtraction: pages 32, 42,74.</li> <li>Subtraction Within 20: page 73.</li> <li>Subtracting in Tens: page 128.</li> <li>Addition with Subtraction/Data: page 144.</li> </ul>

<b>First Class</b>				
<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
	Fractions (Linkage)	<ul style="list-style-type: none"> <li>Establish and identify half of sets to 20</li> </ul>	Pages 45	<ul style="list-style-type: none"> <li>Fractions – Half: page 43.</li> <li>Fractions: pages 120-124.</li> </ul>
Algebra	Extending and using patterns	<ul style="list-style-type: none"> <li>Recognise pattern, including odd and even numbers.</li> <li>Explore and use patterns in addition facts.</li> <li>Understand the use of a frame to show the presence of an unknown number.</li> </ul>	Page 46	<ul style="list-style-type: none"> <li>Number Sentences: page 8, 9, 37.</li> <li>Patterns on the 100 Square: page 104.</li> <li>Number patterns: page 119.</li> <li>Doubles Near Doubles: page 60.</li> <li>Addition Within 20: pages 61-63.</li> <li>Addition: pages 10, 11.</li> <li>*Addition/Data: pages 13-15.</li> <li>Addition Combinations pages 24, 25.</li> <li>Commutative Property: pages 22, 23.</li> <li>Subtraction: pages 26-31.</li> <li>Pairs: page 91.</li> <li>The 100 Square: page 102.</li> <li>Adding with Renaming: pages 138, 139.</li> <li>Game: pages 110, 111.</li> </ul>
Shape and Space	Spatial awareness	<ul style="list-style-type: none"> <li>Explore, discuss, develop and use the vocabulary of spatial relations.</li> <li>Give and follow simple directions within classroom and school settings.</li> </ul>	Pages 48	<ul style="list-style-type: none"> <li>Locating: pages 16,17, 33, 47, 81.</li> </ul>
	2-D shapes (Linkage, integration)	<ul style="list-style-type: none"> <li>Sort, describe, compare and name 2-D shapes: square, rectangle, triangle, circle, semicircle.</li> <li>Construct and draw 2-D shapes.</li> <li>Combine and partition 2-D shapes.</li> <li>Identify halves of 2-D shapes.</li> </ul>	Page 49	<ul style="list-style-type: none"> <li>~ 2-D shapes: pages 40, 41, 44, 45.</li> </ul>
	3-D shapes (Linkage)	<ul style="list-style-type: none"> <li>Describe, compare and name 3-D shapes, including cube, cuboid, cylinder and sphere.</li> <li>Discuss the use of 3-D shapes in the environment.</li> <li>Solve and complete practical tasks and problems involving 2-D and 3-D shapes.</li> <li>Explore the relationship between 2-D and 3-D shapes.</li> </ul>	Page 50	<ul style="list-style-type: none"> <li>~3-D shapes: pages 54, 55.</li> </ul>

<b>First Class</b>				
<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
	Symmetry		Page 51	
	Angles (Integration)		Page 51	
	Area (Linkage)		Page 53	
	Weight	<ul style="list-style-type: none"> <li>Estimate, compare and record weight using non-standard units.</li> <li>Select and use appropriate non-standard measuring units and instruments.</li> <li>Estimate, measure and record weight using standard unit (the kilogram) and solve simple problems.</li> </ul>		<ul style="list-style-type: none"> <li>Weight: pages 82, 83.</li> <li>*Weight: 132, 133.</li> </ul>
	Capacity	<ul style="list-style-type: none"> <li>Estimate, compare, measure and record capacity using non-standard units.</li> <li>Select and use appropriate non-standard measuring units and instruments.</li> <li>Estimate, measure and record capacity using standard unit (the litre) and solve simple problems.</li> </ul>	Page 55	<ul style="list-style-type: none"> <li>Capacity: pages 76, 77.</li> <li>Capacity – The Litre: page 140.</li> </ul>
	Time	<ul style="list-style-type: none"> <li>Use the vocabulary of time to sequence events.</li> <li>Read and record time using simple devices.</li> <li>Read time in hours and half-hours on 12-hour analogue clock.</li> <li>Read day, date and month using a calendar.</li> </ul>	Page 56	<ul style="list-style-type: none"> <li>Time: pages 34, 35, 70, 71, 86.</li> <li>*Time: 112, 113.</li> <li>Time-Before and After: pages 38, 39.</li> <li>Time- The Seasons: page 46.</li> <li>Time – Months: page 51.</li> </ul>
	Money	<ul style="list-style-type: none"> <li>Recognise, exchange and use coins up to the value of 50 cents.</li> <li>Calculate how many items may be bought with a given sum.</li> </ul>	Page 57	<ul style="list-style-type: none"> <li>Money: pages 64-66, 115-118.</li> </ul>
Data	Representing and interpreting data (Integration).	<ul style="list-style-type: none"> <li>Sort and classify objects by two and three criteria.</li> <li>Represent and interpret data in two, three or four rows or columns using real objects, models and pictures.</li> </ul>	Page 58	<ul style="list-style-type: none"> <li>Data: pages 5, 12, 67, 87.</li> <li>*Addition/Data: pages 13-15.</li> <li>Addition with Subtraction/Data: page 144.</li> <li>*Time: pages 112, 113.</li> <li>* Adding Three Numbers/Data: page 75.</li> </ul>



<b>First Class</b>				
<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
Tables		<ul style="list-style-type: none"> <li>• Addition (1-10)</li> <li>• Subtraction (1-10)</li> </ul>		<ul style="list-style-type: none"> <li>• 4 plus 0 equals 4 etc.</li> <li>• 9 minus 0 equals to 9 etc.</li> </ul>

Second Class				
				* common to other strands
Strand	Strand Unit	Content/Activities	Curriculum	Resource: Maths Matters
Number	Counting and numeration	<ul style="list-style-type: none"> <li>Count the number of objects in a set.</li> <li>Read, write and order numerals 0-199.</li> <li>Estimate the number of objects in set 0-20.</li> </ul>	Page 40	<ul style="list-style-type: none"> <li>Counting: pages 6-8, 24, 95-97, 102.</li> <li>Counting Back: page 86.</li> <li>* The 100 Square: page 43, 44 .</li> </ul>
	Comparing and Ordering	<ul style="list-style-type: none"> <li>Compare equivalent and non-equivalent sets 0-20.</li> <li>Use the language of ordinal number.</li> </ul>	Page 41	<ul style="list-style-type: none"> <li>Maths Signs: page 12.</li> </ul>
	Place Value (addition and subtraction)	<ul style="list-style-type: none"> <li>Explore, identify and record place value 0-99.</li> </ul>	Page 41	<ul style="list-style-type: none"> <li>Place Value: pages 22, 23, 98-101.</li> </ul>
	Operations	<ul style="list-style-type: none"> <li><b>Addition:</b> Develop an understanding of addition by combining or partitioning sets.</li> <li>Explore, develop and apply commutative, associative and zero properties of addition.</li> <li>Develop and recall mental strategies for addition facts within 20.</li> <li>Construct number sentences and number stories; solve problems involving addition within 99.</li> <li>Add numbers without and with renaming within 99.</li> <li>Explore and discuss repeated addition and group counting.</li> <li><b>Subtraction:</b> Develop an understanding of subtraction as deduction, as complementing and as difference.</li> <li>Develop and recall mental strategies for subtraction 0-20.</li> <li>Construct number sentences involving subtraction of whole numbers; solve problems involving subtraction.</li> <li>Estimate differences within 99.</li> <li>Subtract numbers without and with renaming within 99.</li> <li>Use the symbols +, -, =, &lt;, &gt;.</li> <li>Solve one-step and two-step problems involving addition and subtraction.</li> </ul>	Pages 42-45	<ul style="list-style-type: none"> <li>Adding Within 20: page 9.</li> <li>Adding Both Ways: page 13.</li> <li>Number Sentences/Story: page 14, 56, 128.</li> <li>Zero: pages 15-16.</li> <li>Number Facts: page 19.</li> <li>Swapping Units: pages 20, 21.</li> <li>Ten: page 31.</li> <li>Through 10: page 33.</li> <li>Adding Three Numbers: page 37.</li> <li>The Number Line: page 109.</li> <li>Making Estimates: page 45, 52.</li> <li>Adding without Renaming: page 46.</li> <li>Adding On: page 48.</li> <li>Swapping Units: page 59.</li> <li>Adding with Renaming: page 60.</li> <li>Adding: page 89.</li> <li>Numbers in Words: page 104.</li> <li>Puzzle Page (1): page 17, 57, 119.</li> <li>Doubles or Near Doubles: page 25.</li> <li>Using Brackets: pages 34, 35.</li> <li>Number Stories: pages 56, 128.</li> <li>Subtracting within 20: page 10.</li> <li>Subtracting without Renaming: page 53.</li> <li>Swapping Tens: page 76.</li> <li>Subtracting with Renaming: page 77.</li> <li>Subtracting (Looking back): page 110.</li> <li>Adding and subtracting: pages 118.</li> <li>* Adding and Subtracting: pages 132, 133.</li> </ul>

<b>Second Class</b>				
<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
Shape and space	Spatial awareness	<ul style="list-style-type: none"> <li>Explore, discuss, develop and use the vocabulary of spatial relations.</li> <li>Give and follow simple directions within classroom and school settings, including turning directions using half and quarter turns</li> </ul>	Pages 48	<ul style="list-style-type: none"> <li>Locating: pages 18, 85, 105.</li> <li>Symmetry: pages 49-51.</li> <li>Covering Surfaces: pages 72, 75.</li> <li>* Objects that Turn: page 134.</li> </ul>
	2-D shapes (Linkage, integration)	<ul style="list-style-type: none"> <li>Sort, describe, compare and name 2-D shapes: square, rectangle, triangle, circle, semicircle, oval.</li> <li>Construct and draw 2-D shapes.</li> <li>Combine and partition 2-D shapes.</li> <li>Identify half and quarter of shapes.</li> <li>Identify and discuss the use of 2-D shapes in the environment.</li> </ul>	Page 49	<ul style="list-style-type: none"> <li>2-D Shapes: pages 29, 30.</li> <li>2-D Shapes: pages 68, 69.</li> <li>* Fractions: pages 38, 42.</li> </ul>
	3-D shapes (Linkage)	<ul style="list-style-type: none"> <li>Describe, compare and name 3-D shapes, including cube, cuboid, cylinder, sphere and cone.</li> <li>Discuss the use of 3-D shapes in the environment.</li> <li>Solve and complete practical tasks and problems involving 2-D and 3-D shapes.</li> <li>Explore the relationship between 2-D and 3-D shapes.</li> </ul>	Page 50	<ul style="list-style-type: none"> <li>3-D Shapes: pages 26-28, 135.</li> </ul>
	Symmetry	<ul style="list-style-type: none"> <li>Identify line symmetry in shapes and in the environment.</li> </ul>	Page 51	<ul style="list-style-type: none"> <li>Symmetry: pages 49-51.</li> </ul>
	Angles (Integration)	<ul style="list-style-type: none"> <li>Explore and recognise angles in the environment.</li> </ul>	Page 51	<ul style="list-style-type: none"> <li>* Objects That Turn: page 135.</li> </ul>
Measures	Length (Linkage)	<ul style="list-style-type: none"> <li>Estimate, compare, measure and record length using non-standard units.</li> <li>Select and use appropriate non-standard measuring units/instruments.</li> <li>Estimate, measure and record length using metre and centimetre.</li> <li>Solve and complete practical tasks and problems involving length.</li> </ul>	Pages 52,53	<ul style="list-style-type: none"> <li>Length: pages 111-117.</li> </ul>

<b>Second Class</b>				
<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
	Area (Linkage)	<ul style="list-style-type: none"> <li>Estimate and measure area using non-standard units.</li> </ul>	Page 53	
	Capacity	<ul style="list-style-type: none"> <li>Estimate, compare, measure and record the capacity of a wide variety of containers using non-standard units.</li> <li>Select and use appropriate non-standard measuring units and instruments.</li> <li>Estimate, measure and record capacity using litre, half-litre and quarter-litre bottles and solve simple problems.</li> </ul>	Page 55	<ul style="list-style-type: none"> <li>Liquids: pages 91-93.</li> </ul>
	Time	<ul style="list-style-type: none"> <li>Use the vocabulary of time to sequence events.</li> <li>Read and record time using simple devices.</li> <li>Read time in hours, half-hours and quarter-hours on 12-hour analogue clock.</li> <li>Read time in hour and half-hours on digital clock.</li> <li>Read day, date and month using calendar and identify the season.</li> </ul>	Page 56	<ul style="list-style-type: none"> <li>Time: pages 79-84.</li> <li>The Calendar/Week/Months of the Year: pages 65-67.</li> </ul>
	Money	<ul style="list-style-type: none"> <li>Recognise, exchange and use coins up to the value of 2 euro.</li> <li>Write the value of a group of coins; record money amount as cents and later as euro.</li> </ul>	Page 57	<ul style="list-style-type: none"> <li>Money: pages 54, 55, 120-126.</li> </ul>
Data	Representing and interpreting data (Integration).	<ul style="list-style-type: none"> <li>Sort and classify objects by two and three criteria.</li> <li>Represent, read and interpret simple tables and charts (pictograms).</li> <li>Represent, read and interpret simple block graphs.</li> </ul>	Page 58	<ul style="list-style-type: none"> <li>Graphs: pages 70, 90, 106, 127.</li> <li>Puzzle Page (5): page 61.</li> <li>2-D Shapes: pages 68, 69.</li> </ul>
Tables		<ul style="list-style-type: none"> <li>Addition (1-10)</li> <li>Subtraction (1-10)</li> </ul>		<ul style="list-style-type: none"> <li>4 plus 0 equals 4 etc.</li> <li>9 minus 0 equals to 9 etc.</li> </ul>



Third Class			Tables	Subtraction *common to other strands
Strand	Strand Unit	Content/Learning Objectives	Curriculum	Resource: Maths Matters
Number	Place Value	<ul style="list-style-type: none"> <li>Explore and identify place value in whole numbers 0-999.</li> <li>Read, write and order three-digit numbers.</li> <li>Round whole numbers to the nearest ten or hundred.</li> <li>Explore and identify place value in decimal numbers to one place or decimals.</li> </ul>	Page 64	<ul style="list-style-type: none"> <li>Unit 2: Place Value – pages 10-16.</li> </ul>
	Operations (Addition, subtraction, multiplication and division)	<ul style="list-style-type: none"> <li>Addition and Subtraction.</li> <li>Add and subtract, without and with renaming, within 999.</li> <li><b>Subtraction: Borrow Pay Back method to be introduced at the end of January</b></li> <li>Know and recall addition and subtraction facts.</li> <li>Solve word problems involving addition and subtraction.</li> <li>Multiplication.</li> <li>Develop and understanding of multiplication as repeated addition and vice versa.</li> <li>Explore, understand and apply the zero, commutative and distributive properties of multiplication.</li> <li>Develop and/or recall multiplication facts within 100.</li> <li>Multiply a one-digit or two-digit number 0-10.</li> <li>Solve and complete practical tasks and problems involving multiplication of whole numbers.</li> <li>Division.</li> <li>Develop an understanding of division as sharing and as repeated subtraction, without and with remainders.</li> <li>Develop and/or recall division facts within 100.</li> <li>Divide a one-digit or two-digit number by a one-digit number without and with remainders.</li> <li>Solve and complete practical tasks and problems involving division of whole numbers.</li> </ul>	Pages 65-68	<ul style="list-style-type: none"> <li>Unit 3: Addition – pages 17-22.</li> <li>Unit 4: Subtraction – pages 23-28.</li> <li>Unit 6: Multiplication (1) – pages 39-42.</li> <li>Unit 17: Multiplication (2) – pages 108-111.</li> <li>Unit 7: Division (1) – pages 43- 47.</li> <li>Unit 18: Division (2) – pages 112-118.</li> </ul>

<b>Third Class</b>				
<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
	Fractions	<ul style="list-style-type: none"> <li>Identify fractions and equivalent forms of fractions with denominations 2, 4, 8 and 10.</li> <li>Compare and order fractions with appropriate denominators and position on the number line.</li> <li>Calculate a fraction of a set using concrete materials.</li> <li>Develop an understanding of the relationship between fractions and division.</li> <li>Calculate a unit fraction of a number and calculate a number, given a unit fraction of the number.</li> <li>Solve and complete practical tasks and problems involving fractions.</li> </ul>	Pages 68-69	<ul style="list-style-type: none"> <li>Unit 8: Fractions (1) – pages 48-53.</li> <li>Unit 20: Fractions (2) – pages 124-128.</li> </ul>
	Decimals	<ul style="list-style-type: none"> <li>Identify tenths and express in decimal form.</li> <li>Order decimals on the number line.</li> <li>Solve problems involving decimals.</li> </ul>	Pages 69	<ul style="list-style-type: none"> <li>Unit 9: Decimals – pages 54-58.</li> </ul>
Shape and space	2-D shapes (Linkage and Integration)	<ul style="list-style-type: none"> <li>Identify, describe and classify 2-D shapes: square, rectangle, triangle, hexagon, circle, semicircle, oval and irregular shapes.</li> <li>Explore, describe and compare the properties (sides, angles, parallel and non-parallel lines) of 2-D shapes.</li> <li>Construct and draw 2-D shapes.</li> <li>Combine,, tessellate and make patterns with 2-D shapes.</li> <li>Identify the use of 2-D shapes in the environment.</li> <li>Solve and complete practical tasks and problems involving 2-D shapes.</li> </ul>	Page 72	<ul style="list-style-type: none"> <li>Unit 12: 2-D shapes – pages 78-83.</li> </ul>

<b>Third Class</b>				
<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
	3-D shapes (Integration)	<ul style="list-style-type: none"> <li>Identify, describe and classify 3-D shapes, including cube, cuboid, cylinder, cone, sphere, triangular prism, pyramid.</li> <li>Explore, describe and compare the properties of 3-D shapes.</li> <li>Explore and describe the relationship of 3-D shapes with constituent 2-D shapes.</li> <li>Construct 3-D shapes.</li> <li>Solve and complete practical tasks and problems involving 2-D and 3-D shapes.</li> </ul>	Page 73	<ul style="list-style-type: none"> <li>Unit 24: 3-D Shapes – pages 146-150.</li> </ul>
	Symmetry (Linkage)	<ul style="list-style-type: none"> <li>Identify line symmetry in the environment.</li> <li>Identify and draw lines of symmetry in two-dimensional shapes.</li> </ul>	Page 74	<ul style="list-style-type: none"> <li>Unit 16: Symmetry – pages 103-107.</li> </ul>
	Lines and angles (Integration)	<ul style="list-style-type: none"> <li>Identify, describe and classify vertical, horizontal and parallel lines.</li> <li>Recognise and angle in terms of a rotation.</li> <li>Classify angles as greater than, less than or equal to a right angle.</li> <li>Solve problems involving lines and angles.</li> </ul>	Page 75	<ul style="list-style-type: none"> <li>Unit 5: Lines and Angles – pages 29-35.</li> </ul>
Measures	Length (Integration)	<ul style="list-style-type: none"> <li>Estimate, compare, measure and record length of a wide variety of objects using appropriate metric units (m, cm).</li> <li>Rename units of length in m and cm.</li> <li>Solve and complete practical tasks and problems involving the addition and subtraction of units of length (m, cm).</li> </ul>	Page 76	<ul style="list-style-type: none"> <li>Unit 13: Length – pages 84-89.</li> </ul>
	Area (Linkage)	<ul style="list-style-type: none"> <li>Estimate, compare and measure the area of regular and irregular shapes.</li> </ul>	Page 77	<ul style="list-style-type: none"> <li>Unit 21: Area – pages 132-134.</li> </ul>



<b>Third Class</b>				
<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
	Time (Integration)	<ul style="list-style-type: none"> <li>• Consolidate and develop further a sense of time passing.</li> <li>• Read time in five-minute intervals on analogue and digital clock (12-hour).</li> <li>• Record time in analogue and digital forms.</li> <li>• Read and interpret simple timetables.</li> <li>• Rename minutes as hours and hours as minutes.</li> <li>• Read dates from calendars and express weeks as days and vice versa.</li> <li>• Solve and complete practical tasks and problems involving times and dates.</li> </ul>	Pages 79,80	<ul style="list-style-type: none"> <li>• Unit 11: Time – pages 65-71.</li> </ul>
	Money (Integration)	<ul style="list-style-type: none"> <li>• Rename amounts of euro or cents and record using symbols and decimal point.</li> <li>• Solve and complete one-step problems and tasks involving the addition and subtraction of money.</li> </ul>	Page 81	<ul style="list-style-type: none"> <li>• Unit 10: Money – pages 59-64.</li> </ul>
Data	Representing and interpreting data (Linkage and Integration)	<ul style="list-style-type: none"> <li>• Collect, organise and represent data using pictograms, block graphs and bar charts.</li> <li>• Read and interpret tables, pictograms, block graphs and bar charts.</li> <li>• Use data sets to solve and complete practical tasks and problems.</li> </ul>	Page 82	<ul style="list-style-type: none"> <li>• Unit 22: Graphs – pages 135-140.</li> </ul>
	Chance (Integration)	<ul style="list-style-type: none"> <li>• Use vocabulary of uncertainty and chance: possible, impossible, might, certain, not sure.</li> <li>• Order events in terms of likelihood of occurrence</li> <li>• Identify and record outcomes of simple random processes.</li> </ul>	Page 83	<ul style="list-style-type: none"> <li>• Unit 25: Chance – pages 151-155.</li> </ul>
Tables		<ul style="list-style-type: none"> <li>• Addition</li> <li>• Subtraction</li> <li>• Multiplication</li> <li>• Division</li> </ul>		<ul style="list-style-type: none"> <li>• 5 plus 1 equals 6 etc.</li> <li>• 9 minus 3 equals 6 etc.</li> <li>• 3 5s equals 15 etc.</li> <li>• 6 into 6 goes once etc.</li> </ul>

**Fourth Class**

<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
Number	Place Value	<ul style="list-style-type: none"> <li>• Explore and identify place value in whole numbers 0-9999.</li> <li>• Read, write and order four-digit numbers and solve simple problems.</li> <li>• Round whole numbers to the nearest thousand.</li> <li>• Explore and identify place value in decimal numbers to two places of decimals.</li> </ul>	Page 64	<ul style="list-style-type: none"> <li>• Unit 2: Place-Value – pages 10-16.</li> </ul>
	Operations (Addition, subtraction, multiplication and division)	<ul style="list-style-type: none"> <li>• Add and subtract, without and with renaming, within 9999.</li> <li>• Know and recall addition and subtraction facts.</li> <li>• Solve word problems involving addition and subtraction.</li> <li>• Develop and understanding of multiplication as repeated addition and vice versa.</li> <li>• Explore, understand and apply the zero, commutative and distributive properties of multiplication.</li> <li>• Develop and/or recall multiplication facts within 100.</li> <li>• Multiply a two-digit or three digit number by a one or two-digit number.</li> <li>• Use a calculator to check estimates.</li> <li>• Solve and complete practical tasks and problems involving multiplication of whole numbers</li> <li>• Develop an understanding of division as sharing and as repeated subtraction, without and with remainders.</li> <li>• Develop and/or recall division facts within 100.</li> <li>• Divide a three-digit number by a one-digit number without and with remainders.</li> <li>• Use a calculator to check estimates.</li> <li>• Solve and complete practical tasks and problems involving division of whole numbers.</li> </ul>	Pages 65-68	<ul style="list-style-type: none"> <li>• Unit 3: Addition – pages 17-24.</li> <li>• Unit 4: Subtraction – pages 25-31.</li> <li>• Unit 6: Multiplication – pages 42-48.</li> <li>• Unit 7: Division – pages 49-55.</li> </ul>

**Fourth Class**

Strand	Strand Unit	Content/Learning Objectives	Curriculum	Resource: Maths Matters
	Fractions	<ul style="list-style-type: none"> <li>• Identify fractions and equivalent forms of fractions with denominations 2, 3, 4, 5, 8, 9, 10 and 12.</li> <li>• Compare and order fractions with appropriate denominators and position on the number line.</li> <li>• Calculate a fraction of a set using concrete materials.</li> <li>• Calculate a number, given a multiple fraction of the number.</li> <li>• Express one number as a fraction of another number.</li> <li>• Solve and complete practical tasks and problems involving fractions.</li> </ul>	Pages 68-69	<ul style="list-style-type: none"> <li>• Unit 11: Fractions (1) – pages 79-85.</li> <li>• Unit 16: Fractions (2) – pages 115-120.</li> </ul>
	Decimals	<ul style="list-style-type: none"> <li>• Express tenths and hundredths as fractions and decimals.</li> <li>• Identify place value of whole numbers and decimals to two places and write in expanded form.</li> <li>• Order decimals on the number line.</li> <li>• Add and subtract whole numbers and decimals up to two places.</li> <li>• Multiply and divide a decimal number up to two places by a single-digit whole number.</li> <li>• Solve problems involving decimals.</li> </ul>	Pages 69	<ul style="list-style-type: none"> <li>• Unit 12: Decimals (1) – pages 86-91.</li> <li>• Unit 17: Decimals (2) - pages 121-125.</li> </ul>
Algebra	Number patterns and sequences	<ul style="list-style-type: none"> <li>• Explore, recognise and record patterns in number, 0-9999.</li> <li>• Explore, extend and describe sequences.</li> <li>• Use patterns as an aid in the memorisation of number facts.</li> </ul>	Page 70	<ul style="list-style-type: none"> <li>• Unit 13: Patterns – pages 92-97.</li> </ul>
	Number sentences	<ul style="list-style-type: none"> <li>• Translate and addition , subtraction, multiplication or division number sentence with a frame into a word problem (frame not in initial position).</li> <li>• Translate a one-step word problem into a number sentence.</li> <li>• Solve one-step number sentences.</li> </ul>	Page 71	<ul style="list-style-type: none"> <li>• Unit 22: Number Sentences – pages 155-159.</li> </ul>

**Fourth Class**

Strand	Strand Unit	Content/Learning Objectives	Curriculum	Resource: Maths Matters
	2-D shapes (Linkage and Integration)	<ul style="list-style-type: none"> <li>• Identify, describe and classify 2-D shapes: equilateral, isosceles and scalene triangle, parallelogram, rhombus, pentagon, octagon.</li> <li>• Explore, describe and compare the properties (sides, angles, parallel and non-parallel lines) of 2-D shapes.</li> <li>• Construct and draw 2-D shapes.</li> <li>• Combine, tessellate and make patterns with 2-D shapes.</li> <li>• Identify the use of 2-D shapes in the environment.</li> <li>• Solve and complete practical tasks and problems involving 2-D shapes.</li> </ul>	Page 72	<ul style="list-style-type: none"> <li>• Unit 10: 2-D Shapes – pages 70-75.</li> </ul>
	3-D shapes (Integration)	<ul style="list-style-type: none"> <li>• Identify, describe and classify 3-D shapes, including cube, cuboid, cylinder, cone, sphere, triangular prism, pyramid.</li> <li>• Establish and appreciate that when prisms are sliced through (in the same direction) each face is equal in shape and size.</li> <li>• Explore and describe the relationship of 3-D shapes with constituent 2-D shapes.</li> <li>• Construct 3-D shapes.</li> <li>• Solve and complete practical tasks and problems involving 2-D and 3-D shapes.</li> </ul>	Page 73	<ul style="list-style-type: none"> <li>• Unit 24: 3-D shapes – pages 166-171.</li> </ul>
	Symmetry (Linkage)	<ul style="list-style-type: none"> <li>• Identify line symmetry in the environment.</li> <li>• Identify lines of symmetry as horizontal, vertical or diagonal.</li> <li>• Use understanding of line symmetry to complete missing half of a shape, picture or pattern.</li> </ul>	Page 74	<ul style="list-style-type: none"> <li>• Unit 15: Symmetry – pages 105-111.</li> </ul>
	Lines and angles (Integration)	<ul style="list-style-type: none"> <li>• Identify, describe and classify oblique and perpendicular lines.</li> <li>• Draw, discuss and describe intersecting lines and their angles.</li> <li>• Classify angles as greater than, less than or equal to a right angle.</li> <li>• Solve problems involving lines and angles.</li> </ul>	Page 75	<ul style="list-style-type: none"> <li>• Unit 5: Lines and Angles – pages 32-38.</li> </ul>

**Fourth Class**

Strand	Strand Unit	Content/Learning Objectives	Curriculum	Resource: Maths Matters
	Weight	<ul style="list-style-type: none"> <li>• Estimate, compare, measure and record the weight of a wide variety of objects using appropriate metric units (kg, g) and selecting suitable instruments of measurement.</li> <li>• Rename units of weight in kg and g.</li> <li>• Rename units of weight using decimal or fraction form.</li> <li>• Solve and complete practical tasks and problems involving the addition, subtraction, multiplication and simple division of units of weight (kg and g).</li> </ul>	Page 77	<ul style="list-style-type: none"> <li>• Unit 18 Weight – pages 126-131.</li> </ul>
	Capacity	<ul style="list-style-type: none"> <li>• Estimate, compare, measure and record capacity using appropriate metric (l, ml) and selecting suitable instruments of measurement.</li> <li>• Rename units of capacity in l and ml</li> <li>• Rename units of capacity using decimal and fraction form.</li> <li>• Solve and complete practical tasks and problems involving the addition, subtraction, multiplication and simple division of units of capacity (l, ml).</li> </ul>	Page 78	<ul style="list-style-type: none"> <li>• Unit 23: Capacity – pages 160-165.</li> </ul>
	Time (Integration)	<ul style="list-style-type: none"> <li>• Consolidate and develop further a sense of time.</li> <li>• Read time in one-minute intervals on analogue and digital clock (12-hour).</li> <li>• Express digital time as analogue time and vice versa.</li> <li>• Read and interpret simple timetables.</li> <li>• Rename minutes as hours and hours as minutes.</li> <li>• Read dates from calendars and express weeks as days and vice versa.</li> <li>• Solve and complete practical tasks and problems involving times and dates and the addition and subtraction of hour and minutes.</li> </ul>	Pages 79,80	<ul style="list-style-type: none"> <li>• Unit 8: Time – pages 56-62.</li> </ul>
	Money (Integration)	<ul style="list-style-type: none"> <li>• Rename amounts of money as euro or cents and record using euro symbol and decimal point.</li> <li>• Solve and complete practical one-step and two-step problems and tasks involving the addition, subtraction, multiplication and simple division of money.</li> </ul>	Page 81	<ul style="list-style-type: none"> <li>• Unit 9: Money – pages 63-69.</li> </ul>

**Fourth Class**

<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
		<ul style="list-style-type: none"><li>• Addition</li><li>• Subtraction</li><li>• Multiplication</li><li>• Division</li></ul>		<ul style="list-style-type: none"><li>• 5 plus 1 equals 6 etc.</li><li>• 9 minus 3 equals 6 etc.</li><li>• 3 5s equals 15 etc.</li><li>• 6 into 6 goes once etc.</li></ul>

**Fifth Class**

<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
Number	Place Value	<ul style="list-style-type: none"> <li>• Read, write and order whole numbers and decimals.</li> <li>• Identify place value in whole numbers and decimals.</li> <li>• Round whole numbers and round decimals.</li> </ul>	Page 88	<ul style="list-style-type: none"> <li>• Unit 2: Place-Value: pages 9-13.</li> </ul>
	Operations	<ul style="list-style-type: none"> <li>• Estimate sums, differences, products and quotients of whole numbers.</li> <li>• Add and subtract whole numbers and decimals (to three decimal places) without and with a calculator.</li> <li>• Multiply a decimal (up to three places) by a whole number, without and with a calculator.</li> <li>• Divide a three-digit number by a two-digit number, without and with a calculator.</li> <li>• Divide a decimal number by a whole number, without and with a calculator.</li> </ul>	Pages 88,89	<ul style="list-style-type: none"> <li>• Unit 5 Numbers: pages 26-34.</li> </ul>
	Fractions	<ul style="list-style-type: none"> <li>• Compare and order fractions and identify equivalent forms of fractions with denominators 2-12.</li> <li>• Express improper fractions as mixed numbers and vice versa and position them on the number line.</li> <li>• Add and subtract simple fractions and simple mixed numbers.</li> <li>• Multiply a fraction by a whole number.</li> <li>• Express tenths, hundredths and thousandths in both fractional and decimal form.</li> </ul>	Pages 89,90	<ul style="list-style-type: none"> <li>• Unit 7 Fractions (1): pages 41-51.</li> <li>• Unit 12 Fractions (2): pages 86-92.</li> </ul>
	Decimals and percentages (Linkage and Integration)	<ul style="list-style-type: none"> <li>• Develop and understanding of simple percentages and relate them to fractions and decimals.</li> <li>• Compare and order fractions and decimals.</li> <li>• Solve problems involving operations with whole numbers, fractions, decimals and simple percentages.</li> </ul>	Page 91	<ul style="list-style-type: none"> <li>• Unit 10 Decimals (1): pages 71-78.</li> <li>• Unit 14 Decimals (2): pages 103-108.</li> <li>• Unit 19 Percentages (1): pages 136-143.</li> <li>• Unit 21 Percentages (2): pages 157-162.</li> </ul>
	Number theory	<ul style="list-style-type: none"> <li>• Identify simple prime and composite numbers.</li> <li>• Identify square and rectangular numbers.</li> <li>• Identify factors and multiples.</li> </ul>	Page 92	<ul style="list-style-type: none"> <li>• Unit 17 Number Sequences: pages 123-129.</li> </ul>
Algebra	Directed numbers (Integration)	<ul style="list-style-type: none"> <li>• Identify positive and negative numbers in context.</li> </ul>	Page 94	<ul style="list-style-type: none"> <li>• Unit 13 Directed Numbers: pages 93-96.</li> </ul>
	Rules and properties	<ul style="list-style-type: none"> <li>• Explore and discuss simple properties and rules about brackets and priority of operation.</li> <li>• Identify relationships and record verbal and simple symbolic rules and number patterns.</li> </ul>	Page 95	<ul style="list-style-type: none"> <li>• See unit 5.</li> </ul>
	Variables		Page 96	

**Fifth Class**

<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
	Equations	<ul style="list-style-type: none"> <li>• Translate number sentences with a frame into word problems and vice versa.</li> <li>• Solve one-step number sentences and equations.</li> </ul>	Page 97	<ul style="list-style-type: none"> <li>• Unit 25 Number Sentences: pages 182-185.</li> </ul>
Shape and space	2-D shapes	<ul style="list-style-type: none"> <li>• Make informal deductions about 2-D shapes and their properties.</li> <li>• Use angle and line properties to classify and describe triangles and quadrilaterals.</li> <li>• Identify the properties of the circle.</li> <li>• Construct a circle of given radius or diameter.</li> <li>• Tessellate combinations of 2-D shapes.</li> <li>• Classify 2-D shapes according to their lines of symmetry.</li> <li>• Use 2-D shapes and properties to solve problems.</li> </ul>	Pages 98,99	<ul style="list-style-type: none"> <li>• Unit 8 2-D Shapes: pages 58-65.</li> <li>• Unit 23 Symmetry: pages 172-176.</li> </ul>
	3-D shapes (Integration)	<ul style="list-style-type: none"> <li>• Identify and examine 3-D shapes and explore relationships, including tetrahedron (faces, edges and vertices).</li> <li>• Draw the nets of simple 3-D shapes and construct the shapes.</li> </ul>	Page 99	<ul style="list-style-type: none"> <li>• Unit 16 3-D Shapes: pages 118-122.</li> </ul>
	Lines and angles	<ul style="list-style-type: none"> <li>• Recognise, classify and describe angles and relate angles to shape and the environment.</li> <li>• Recognise angles in terms of a rotation.</li> <li>• Estimate, measure and construct angles in degrees.</li> <li>• Explore the sum of the angles in a triangle.</li> </ul>	Pages 100, 101	<ul style="list-style-type: none"> <li>• Unit 3 Lines and Angles: pages 14-20.</li> </ul>
Measures	Length (Integration)	<ul style="list-style-type: none"> <li>• Select and use appropriate instruments of measurement.</li> <li>• Estimate and measure length using appropriate metric units.</li> <li>• Estimate and measure the perimeter of regular and irregular shapes.</li> </ul>	Page 102	<ul style="list-style-type: none"> <li>• Unit 15 Length: Pages 109-117.</li> </ul>
	Area	<ul style="list-style-type: none"> <li>• Discover that the area of a rectangle is length by breadth.</li> <li>• Estimate and measure the area of regular and irregular 2-D shapes.</li> <li>• Calculate area using square centimetres and square metres.</li> <li>• Compare visually square metres and square centimetres.</li> </ul>	Page 103	<ul style="list-style-type: none"> <li>• Unit 11 Area: pages 79-85.</li> </ul>



**Fifth Class**

<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
	Weight	<ul style="list-style-type: none"> <li>Select and use appropriate instruments of measurement.</li> <li>Estimate and measure weight using appropriate metric units.</li> </ul>	Page 104	<ul style="list-style-type: none"> <li>Unit 20 Weight: pages 152-156.</li> </ul>
	Capacity	<ul style="list-style-type: none"> <li>Select and use appropriate instruments of measurement.</li> <li>Estimate and measure capacity using appropriate metric units.</li> </ul>	Pages 104, 105	<ul style="list-style-type: none"> <li>Unit 24 Capacity: pages 177-181.</li> </ul>
	Time (Linkage and Integration)	<ul style="list-style-type: none"> <li>Read and interpret timetables and the 24-hour clock (digital and analogue).</li> <li>Interpret and convert between times in 12-hour and 24-hour format.</li> </ul>	Page 105	<ul style="list-style-type: none"> <li>Unit 9 Time: pages 66-70.</li> </ul>
	Money (Linkage)	<ul style="list-style-type: none"> <li>Compare 'value for money' using unitary method.</li> </ul>	Pages 106, 107.	<ul style="list-style-type: none"> <li>Units 6 Money: pages 35-40.</li> </ul>
Data	Representing and interpreting data (Linkage and Integration)	<ul style="list-style-type: none"> <li>Collect, organise and represent data using pictograms, single and multiple bar charts and simple pie charts</li> <li>Read and interpret pictograms, single and multiple bar charts, and pie charts</li> <li>Compile and use simple data sets</li> <li>Explore and calculate averages of simple data sets</li> <li>Use data sets to solve problems</li> </ul>	Pages 108, 109	<ul style="list-style-type: none"> <li>Unit 22 Graphs: pages 163-171.</li> <li>Unit 4 Averages: pages 21-25.</li> </ul>
	Chance (Integration)	<ul style="list-style-type: none"> <li>Identify and list all possible outcomes of simple random processes</li> <li>Estimate the likelihood of occurrence of events</li> <li>Construct and use frequency charts and tables</li> </ul>	Pages 109-111	<ul style="list-style-type: none"> <li>Unit 18 Chance: pages 130-135.</li> </ul>
Tables		<ul style="list-style-type: none"> <li>Addition</li> <li>Subtraction</li> <li>Multiplication</li> <li>Division</li> </ul>		<ul style="list-style-type: none"> <li>5 plus 1 equals 6 etc.</li> <li>9 minus 3 equals 6 etc.</li> <li>3 5s equals 15 etc.</li> <li>6 into 6 goes once etc.</li> </ul>

**Sixth Class**

\* common to other stands

<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
Number	Place Value	<ul style="list-style-type: none"> <li>• Read, write and order whole numbers and decimals.</li> <li>• Identify place value in whole numbers and decimals.</li> <li>• Round decimals.</li> </ul>	Page 88	<ul style="list-style-type: none"> <li>• Unit 5 Numbers and Decimals: pages 45-54.</li> </ul>
	Operations	<ul style="list-style-type: none"> <li>• Estimate sums, differences, products and quotients of decimals.</li> <li>• Add and subtract whole numbers and decimals (to three decimal places) without and with a calculator.</li> <li>• Multiply a decimal by a decimal, without and with a calculator.</li> <li>• Divide a four-digit number by a two-digit number without and with a calculator.</li> <li>• Divide a decimal number by a decimal, without and with a calculator.</li> </ul>	Pages 88,89	<ul style="list-style-type: none"> <li>• Unit 2 Numbers: pages 18-23.</li> <li>• * Unit 11 Time and Speed: pages 104-110.</li> </ul>
	Fractions	<ul style="list-style-type: none"> <li>• Compare and order fractions and identify equivalent forms of fractions.</li> <li>• Express improper fractions as mixed numbers and vice versa and position them on the number line.</li> <li>• Add and subtract simple fractions and simple mixed numbers.</li> <li>• Multiply a fraction by a fraction.</li> <li>• Express tenths, hundredths and thousandths in both fractional and decimal form.</li> <li>• Divide a whole number by a unit fraction.</li> <li>• Understand and use simple ratios.</li> </ul>	Pages 89,90	<ul style="list-style-type: none"> <li>• Unit 4 Fractions: pages 34-44.</li> </ul>
	Decimals and percentages (Linkage and Integration)	<ul style="list-style-type: none"> <li>• Use percentages and relate them to fractions and decimals.</li> <li>• Compare and order percentages of numbers.</li> <li>• Solve problems relating to profit and loss, discount, VAT, interest, increases, decreases.</li> </ul>	Page 91	<ul style="list-style-type: none"> <li>• Unit 9 Percentages: pages 91-99.</li> <li>• Unit 6 Money: pages 55-66.</li> </ul>
	Number theory	<ul style="list-style-type: none"> <li>• Identify simple prime and composite numbers.</li> <li>• Identify and explore square numbers.</li> <li>• Explore and identify simple square roots.</li> <li>• Identify common factors and multiples.</li> <li>• Write whole numbers in exponential form.</li> </ul>	Page 92	<ul style="list-style-type: none"> <li>• * Unit 17 Number Sequences: pages 149-151.</li> </ul>

<b>Sixth Class</b>				
<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
	Variables	<ul style="list-style-type: none"> <li>Explore the concept of a variable in the context of simple patterns, tables and simple formulae and substitute values for variables.</li> </ul>	Page 96	<ul style="list-style-type: none"> <li>See Unit 13.</li> </ul>
	Equations	<ul style="list-style-type: none"> <li>Translate word problems with a variable into number sentences.</li> <li>Solve one-step number sentences and equations.</li> </ul>	Page 97	<ul style="list-style-type: none"> <li>Unit 13: Equations: pages 123-126.</li> </ul>
Shape and space	2-D shapes	<ul style="list-style-type: none"> <li>Make informal deductions about 2-D shapes and their properties.</li> <li>Use angle and line properties to classify and describe triangles and quadrilaterals.</li> <li>Construct triangles from given sides and angles</li> <li>Identify the properties of the circle.</li> <li>Construct a circle of given radius or diameter.</li> <li>Tessellate combinations of 2-D shapes.</li> <li>Classify 2-D shapes according to their lines of symmetry.</li> <li>Plot simple co-ordinates and apply where appropriate.</li> <li>Use 2-D shapes and properties to solve problems.</li> </ul>	Pages 98,99	<ul style="list-style-type: none"> <li>Unit 8 2-D Shapes: pages 81-90</li> <li>Unit 15 Co-ordinates: pages 134-137.</li> </ul>
	3-D shapes (Integration)	<ul style="list-style-type: none"> <li>Identify and examine 3-D shapes and explore relationships, including octahedron (faces, edges, and vertices).</li> <li>Draw the nets of simple 3-D shapes and construct the shapes.</li> <li>Recognise, classify and describe angles and relate angles to shape.</li> <li>Recognise angles in terms of rotation.</li> <li>Estimate, measure and construct angles in degrees.</li> <li>Explore the sum of the angles in a quadrilateral.</li> </ul>	Page 99	<ul style="list-style-type: none"> <li>Unit 16 3-D Shapes: pages 138-141 .</li> <li>Unit 7 Lines and Angles: pages 73-80.</li> </ul>
	Length	<ul style="list-style-type: none"> <li>Select and use appropriate instruments of measurement.</li> <li>Rename measures of length.</li> <li>Estimate and measure the perimeter of regular and irregular shapes.</li> <li>Use and interpret scales on maps and plans.</li> </ul>		<ul style="list-style-type: none"> <li>Unit 3 Length: pages 24-33.</li> </ul>

**Sixth Class**

<b>Strand</b>	<b>Strand Unit</b>	<b>Content/Learning Objectives</b>	<b>Curriculum</b>	<b>Resource: Maths Matters</b>
	Area	<ul style="list-style-type: none"> <li>Recognise that the length of the perimeter of a rectangular shape does not determine the area of the shape.</li> <li>Calculate the area of regular and irregular 2-D shapes.</li> <li>Measure the surface area of specified 3-D shapes.</li> <li>Calculate the area using acres and hectares.</li> <li>Identify the relationship between square metres and square centimetres.</li> <li>Find the area of a room from a scale plan.</li> </ul>	Page 103	<ul style="list-style-type: none"> <li>Unit 19 Area and Perimeter: pages 158-165.</li> </ul>
	Weight	<ul style="list-style-type: none"> <li>Select and use appropriate instruments of measurement</li> <li>Rename measures of weight.</li> </ul>	Page 104	<ul style="list-style-type: none"> <li>Unit 14 Weight: pages 127-133.</li> </ul>
	Capacity	<ul style="list-style-type: none"> <li>Select and use appropriate instruments of measurement.</li> <li>Rename measures of capacity.</li> <li>Find the volume of cuboid experimentally.</li> </ul>	Pages 104, 105	<ul style="list-style-type: none"> <li>Unit 20 Capacity: pages 166-172.</li> </ul>
	Time (Linkage and Integration)	<ul style="list-style-type: none"> <li>Explore international time zones.</li> <li>Explore the relationship between time, distance and average speed.</li> </ul>	Page 105	<ul style="list-style-type: none"> <li>* Unit 11 Time and Speed: pages 104-110.</li> </ul>
	Money (Linkage)	<ul style="list-style-type: none"> <li>Explore value for money.</li> <li>Convert other currencies to euro and vice versa.</li> </ul>	Pages 106, 107.	<ul style="list-style-type: none"> <li>* Unit 6 Money: pages 55-66.</li> </ul>
Data	Representing and interpreting data (Linkage and Integration)	<ul style="list-style-type: none"> <li>Collect, organise and represent data using pie charts and trend graphs.</li> <li>Read and interpret trend graphs and pie charts.</li> <li>Compile and use simple data sets.</li> <li>Explore and calculate averages of simple data sets.</li> <li>Use data sets to solve problems.</li> </ul>	Pages 108, 109	<ul style="list-style-type: none"> <li>Unit 18 Data Representation: pages 152-157.</li> </ul>
	Chance (Integration)	<ul style="list-style-type: none"> <li>Identify and list all possible outcomes of simple random processes.</li> <li>Estimate the likelihood of occurrence of events: order on a scale from 0 to 100%, 0 to 1.</li> <li>Construct and use frequency charts and tables.</li> </ul>	Pages 109-111	<ul style="list-style-type: none"> <li>Unit 21 Chance: pages 173- 179.</li> </ul>
Tables		<ul style="list-style-type: none"> <li>Addition</li> <li>Subtraction</li> <li>Multiplication</li> <li>Division</li> </ul>		<ul style="list-style-type: none"> <li>5 plus 1 equals 6 etc.</li> <li>9 minus 3 equals 6 etc.</li> <li>3 5s equals 15 etc.</li> <li>6 into 6 goes once etc.</li> </ul>