## Year 3 Mathematics Knowledge Organiser



1000m = 1km

1000g = 1 kg

1000 ml = 11

Number Bonds to 100							
0	100		20	80		35	65
5	95		25	75		40	60
10	90		30	70		45	55
15	85					50	50

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0	100		20	80		35	65	
5	95		25	75		40	60	
10	90		30	70		45	55	
15	85		<b>.</b>		•	50	50	

	Multiplication Tables									
X	4	8		3	6	9				
1	4	8		3	6	9				
2	8	16		6	12	18				
3	12	24		9	18	27				
4	16	32		12	24	36				
5	20	40		15	30	45				
6	24	48		18	36	54				
7	28	56		21	42	63				
8	32	64		24	48	72				
9	36	72		27	54	81				
10	40	80		30	60	90				
11	44	88		33	66	99				

48

96

Number of days in each month				
January	31			
February	28*			
March	31			
April	30			
May	31			
June	30			
July	31			
August	31			
September	30			
October	31			
November	30			
December 31				
Leap year is 366 days with 29 days in February				

Multiplication and Division - Derived Facts					
12 ÷ ÷ 3 x 4	$3 \times 4 = 12$ $4 \times 3 = 12$ $12 = 3 \times 4$ $12 = 4 \times 3$ $12 \div 3 = 4$ $12 \div 4 = 3$ $4 = 12 \div 3$ $3 = 12 \div 4$				
Telling the Time					

	2D Shapes						
triangle	a three sided polygon						
quadrilateral	a four sided polygon						
pentagon	a five sided polygon						
hexagon	a six sided polygon						
heptagon	a seven sided polygon						
octagon	an eight sided polygon						
nonagon	a nine sided polygon						
decagon	a ten sided polygon						
hendecagon	an eleven sided polygon						
dodecagon	a twelve sided polygon						

36

72

108

Fractions					
$\frac{1}{2}$	one half				
$\frac{1}{3}$	one third				
$\frac{2}{3}$	two thirds				
$\frac{1}{4}$	one quarter				
$\frac{3}{4}$	three quarters				
1 5	one fifth				
<u>1</u> 6	one sixth				
$\frac{1}{7}$	one seventh				
1 8	one eighth				
<u>1</u> 9	one ninth				
1 10	one tenth				

Geometry							
Vertical	<b>←</b> VERTICAL	Parallel	<u> </u>				
Horizontal	HORIZONTAL		<del></del>				
Perpendicular		Right Angle	90°				
Quarter Turn	1 right angle quarter turn	Three-quarter Turn	3 right angles 3 quarter turns 270°				
Half Turn	2 right angles 2 quarter turns or half turn 180°	Full Turn	4 right angles 4 quarter turns or full turn 360°				
Po	erimeter	4cm 3cm 3cm 4cm The total distance around the outside of a shape. Perimeter = 14cm					
Measurements							

ndecagon	an eleven sided porygon				$\frac{1}{9}$		one r	
odecagon	a twelve sided polygon					1/10		one t
	s							
prisms an	nd pyramids		triangu prisn		square prism	rectangular prism	pentagonal prism	hexagona prism

	Place Value Columns						
	thousands	hundreds	tens	ones		tenths	hundredths
numeral	1000	100	10	1		0.1	0.01

m in a km

g in a kg

ml in a l

10 mm = 1 cm

1000 mm = 1 m

100 cm = 1 m

mm in a cm

mm in a m

cm in a m

It's five to 11  It's ten to 9  It's twenty to 8  It's twenty-five to 7	• past	it's ten past  it's ten past  it's quarter past  it's twenty past
lt'	s half past	

2.05	five past two
3.10	ten past three
19.20	twenty past seven
16.25	twenty-five past four
8.35	twenty-five to nine
21.40	twenty to ten
5.50	ten to six
12.55	five to one