

MARYLAND PRIMARY SCHOOL
MATHS NON-NEGOTIABLES

Reception

Name		Half Term					
Class							
	Reception Non-Negotiables	1	2	3	4	5	6
1	Count to at least 20						
2	Count reliably at least 10 objects						
3	Read, write and order numbers from 1 - 9						
4	Estimate the number of objects and checking by counting						
5	Say the number 1 more/less to 10						
6	Use the terms more/less to compare two numbers						
7	Add two small groups of objects to 10						
8	Subtract by 'taking away' from a group of objects						

YEAR 1

Name		Half Term						
Class								
Year 1 Non-Negotiables		1	2	3	4	5	6	
1	Count to and across 100, forwards and backwards, beginning from any given number							
2	Order numbers to at least 100							
3	Read and write numbers to 100 in numerals							
4	Read and write numbers from 0-20 in words							
5	Say 1 more or 1 less (0-100)							
6	Count in multiples of 2s, 5s and 10s							
7	Know by heart number bonds to 10 and 20 in several forms (for example, $9 + 7 = 16$; $16 - 7 = 9$; $7 = 16 - 9$).							
8	Find simple fractions ($\frac{1}{2}$, $\frac{1}{4}$) of shapes and amounts							
9	Solve one-step problems that involve + and - using objects and pictures							
10	Solve missing number problems such as $7 = [] - 9$							
11	<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>Calculate: (including in the context of real life e.g. money, measures etc)</p> </div> <div style="flex: 1; border-left: 1px solid black; padding-left: 10px;"> <p>U+U (bridging 10)</p> <hr/> <p>TU+U (bridging the next 10)</p> <hr/> <p>U-U (bridging 10)</p> <hr/> <p>TU-U (bridging the 10 before)</p> </div> </div>							
12								
13								
14								

YEAR 2

Name		Half Term					
Class							
Year 2 Non-Negotiables		1	2	3	4	5	6
1	Count confidently to at least 100, forwards and backwards						
2	Read, write and order numbers to 100						
3	Count forward and backwards in 1s, 2s, 3s, 5s and 10s						
4	Use a numberline to calculate 2, 5 and 10 times table facts then know them by heart						
5	To be able to compare numbers using <, > or = symbol.						
6	Double and halve numbers to at least 20						
7	Know and use number bonds and families to 20						
8	Know all 10s number pairs to 100 (E.g. 30 + 70)						
9	Explain place value up to 100						
10	Tell the time to half and quarter hour						
11	Find simple fractions ($\frac{1}{3}, \frac{1}{4}, \frac{1}{2}, \frac{3}{4}$) of shapes and amounts						
12	Calculate: (including in the context of real life e.g. money, measures etc)	TU+TU (bridging 10/100) using an empty numberline					
13		TU-TU (bridging 10) using an empty numberline					
14	Apply calculations to:	Missing number sentences					
15		Balance sentences eg. $__ + __ =$ $__ - __ =$					
16	To begin using inverse (opposite) to check my calculations.						

YEAR 3

Name		Half Term					
Year 3 Non-Negotiables		1	2	3	4	5	6
1	Read, write and order numbers to 1000 (mastery level - up to 9999)						
2	Count on or back in 4s, 8s, 50s & 100s from any number less than 1000						
3	Mentally add and subtract up to 3 digit numbers						
4	Know by heart 3, 4 and 8 times table facts and division facts						
5	Know by heart addition and subtraction facts to 20						
6	Explain value of digits up to 1000 (mastery level - up to 9999)						
7	Multiply 1 and 2 digit numbers by 10 and 1000						
8	Know number pairs that total 100 (and subtraction facts)						
9	Tell the time to the nearest 5 minutes						
10	Find simple fractions (1/3, 1/5 and 1/10) of shapes and amounts						
11	+ and - of fractions with same denominator						
12	Calculate using formal written methods: (including in the context of real life e.g. money, measures etc)	Column method HTU+HTU (including carrying)					
13		Column method HTU-HTU (including borrowing)					
14		Column method TUxU					
15		TU÷U (where U is 2,3,4,5,6,8)					
16		Apply calculations to:	Missing number sentences $220 + [] = 310$				
17		Balance sentences eg. $5 + 7 = 4 \times 3$					

YEAR 4

Name		Half Term					
Year 4 Non-Negotiables		1	2	3	4	5	6
1	Read, write and order numbers and numerals up to 9,999 (mastery level - beyond 10,000)						
2	Count in multiples of 6, 7, 9, 25 and 1000						
3	Mentally, add and subtract pairs of 2 digit numbers						
4	Know by heart ALL table facts and division facts up to 12 x 12						
5	Explain value of digits up to 9,999 (Th, H, T, U)						
6	Multiply and divide 2 digit numbers by 10 and 100						
7	Multiply and divide numbers up to 1000 by 10 or 100 (U. /10 /100)						
8	Multiply and divide numbers up to 1000 by 2, 3, 4 or 5 and find the remainder						
9	Tell the time to the nearest minute						
10	Identify pairs of fractions that equal 1						
11	+ and - of fractions with same denominator						
12	Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, and /10 or /100 (0.25, 0.5, 0.75, 0.1, 0.001)						
13	HTU+TU						
14	HTU+HTU (bridging 1000)						
15	Calculate: (including in the context of real life e.g. money, measures etc)	HTU-TU					
16		HTU-HTU					
17		TUxU					
18		TU÷U					
19	Apply calculations to: Missing number sentences						
20	Balance sentences with more than 1 equal sign						

Name		Half Term					
Class							
Year 5 Non-Negotiables		1	2	3	4	5	6
1	Read and write whole numbers up to 1,000,000						
2	Order a set of positive and negative numbers						
3	Mentally, double all numbers to 100 (e.g. $26 \times 2 = \underline{\quad}$)						
4	Use tables to derive other numbers facts (e.g. $5 \times 5 = 25$ so $50 \times 50 = \underline{\quad}$)						
5	Read, write and order decimal numbers to 3 decimal places						
6	Round numbers to the nearest 10, 100, 1,000, 10,000 and 100,000. Round decimal numbers to the nearest integer						
7	Add and subtract numbers to 1,000,000						
8	Add and subtract to 3 decimal places						
9	Calculate halves and doubles of decimals (e.g. $0.43 \times 2 = \underline{\quad}$)						
10	Use division to find fractions of numbers (e.g. $\frac{1}{3}$ of 300 as $300 \div 3$ or $\frac{2}{5}$ of 300 as $300 \div 5 \times 2$.)						
11	Multiply and divide numbers up to 1,000,000 by 10, 100 and 1000						
12	Recognise squared and cubed numbers to 100						
13	Calculate: (including in the context of real life e.g. money, measures etc)	$HThTTThThHTU + HThTTThThHTU$					
14		$HthTthThHTU - HthTthThHTU$					
15		$ThHTU \times U$					
16		$ThHTU \times TU$					
17		$U.t \times U$					
18		$ThHTU \div U$					
19	Apply calculations to:	Missing number sentences e.g. $7 \times \underline{\quad} = 49$					
20		Balance sentences with more than 1 equal sign e.g. $30+15 = 15 \times \underline{\quad} = 56 - \underline{\quad}$					

Name		Half Term					
Year 6 Non-Negotiables		1	2	3	4	5	6
1	Read and write numbers to ten million						
2	Order a mixed set of numbers to 3 decimal places						
3	Use tables to work with decimals (to 1 decimal place)						
4	Know square numbers to 12x12						
5	Explain value of digits to 3 decimal places						
6	Add and subtract decimals to 3 decimal places						
7	Multiply and divide decimals mentally by 10 and 100 and integers to 1000						
8	Derive pairs of factors for numbers up to 100						
9	Calculate percentages of whole numbers (20% of 1500)						
10	+ and - of fractions with different denominators, inc. mixed numbers						
11	Calculate HThHTU add/subtract HThHTUU						
12	Calculate TU divided HTU x U						
13	Calculate ThHTU x U and HTU x TU						
14	Calculate U.t x U						
15	Calculate ThHTU divided by TU U.t 1/100 divided U						
16	Balance sentences with more than 1 equals sign						
17	Apply calculations to missing number sentences						
18	Add subtract fractions with different denominators						
19	Multiply and divide fractions with different denominators						
20	Multiply a whole number by a mixed number ($17 \times 1 \frac{1}{2}$)						
21	Divide a fraction by a whole number ($\frac{3}{5}$ divided by 2)						
22	Subtract a fraction from a mixed number ($1 \frac{1}{5} - \frac{1}{4}$)						