MARYLAND PRIMARY SCHOOL
MATHS NON-NEGOTIABLES

Reception

Name	
Class	

Reception Non-Negotiables
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
Class

Year 1 Non-Negotiables
1.Count to 100, forwards and backwards
2. Read, write and order numbers to at least 100
3. Say 1 more or less (0-100)
4. Count on and back in 1s, 2s 5s and 10s from any number under 100
5. Double numbers to at least 10
6. Know by heart number bonds for pairs of single digit numbers, including number bonds to 10 (+ and -)
7. Subtract a multiple of 10 from a two digit number
8. Find a half and a quarter of shapes and amounts

Calculate: (including in the context of real life e.g. money, measures etc)	O+O (bridging 10)
	TO+O (within 20)
	O-O
	TO-O(within 20)

Name	
Class	
Year 2 Non-Negotiables	
1.Count confidently to at least 100, forwards and backwards	
2. Read, write and order numbers to 100	
3. Count on and back in 1s, 2s, 3s, 5s from 0 and in 10s from any number.	
4. Know by heart 2, 5 and 10 table facts and division facts	
5. Double and halve numbers to at least 20	
6. Know and use number bonds and families to 20	
7. Know all 10s number pairs to 100 (E.g. 30 + 70)	
8. Explain place value up to 100	
9. Tell the time to half and quarter hour	
10. Find simple fractions ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$, $\frac{1}{3}$) of shapes and amounts	
11. Add 2 two digit numbers using a written method (TO + TO)	
12. Use a written method to subtract a 2 digit number from a 2 digit number (TO - TO)	
Apply calculations to:	13. Missing number sentences
	14. Balance sentences eg. __+__= __-___

YEAR 3

Name
Class

1.Read, write and order numbers and numerals to 1000
2.Count from 0 in multiples of 4, 8, 50 and 100
3.Count on or back in 1s, 10s and 100s from any number less than 1000
4.Mentally, add and subtract 1 and 2 digit numbers
5.Know by heart 3, 4 and 8 times table facts and division facts
6.Know by heart addition and subtraction facts to 20
7.Explain value of digits up to 1000
8.Know number pairs that total 100 (and subtraction facts)
9.Tell the time to the nearest 5 minutes
10.Find fractions of shapes and amounts. e.g. $\frac{1}{3}$ of 21 or $\frac{3}{4}$ of 16.
11. + and – of fractions with same denominator

Calculate: (including in the context of real life e.g. money, measures etc)	HTO+TO/HTO
	HTO-TO/HTO
	TOxO
	TO÷O (where the divisor is 2,3,4,5,8 or 10)
Apply calculations to:	Missing number sentences
	Balance sentences eg. __+__= __-___

YEAR 4

Name
Class

Year 4 Non-Negotiables
1. Read, write and order numbers and numerals to 10,000
2.Mentally, add and subtract pairs of 2 digit numbers
3.Know by heart ALL table facts and division facts
4.Explain the value of digits up to 10,000
5.Count in multiples of 6, 7, 9, 25 and 1000
6.Round any number to the nearest 10, 100 and 1000
7.Tell the time to the nearest minute
8.Identify pairs of fractions that equal 1
9.+ and – of fractions with same denominator (crossing 1 whole)
10.Know by heart the decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, and $\frac{3}{4}$

	ThHTO+ThHTO
Calculate:	ThHTO-ThHTO
(including in the context of real life e.g. money,	TO x O
measures etc)	HTO x O
	HTO÷O (including remainders)
Apply calculations to:	Missing number sentences
	Balance sentences with more than 1 equal sign

YEAR 5

	Name
	Class
Year 5 Non-Negotiables
1	Read, write and order numbers and numerals to at least 1,000,000. Read, write, order and compare numbers with up to 3 decimal places.
2	Determine the place value of digits in numbers to 1,000,000
3	Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 or 100,00. Round decimals numbers to the nearest integer.
4	Order a set of positive and negative integers
5	Use tables to derive other numbers facts e.g. 5 x 5= 25 so 50 x 50 = 250
6	Find fractions of numbers (e.g. ($\frac{2}{5}$ of 300)
7	Multiply and divide whole numbers by 10, 100 and 1000 (e.g. 472÷100 or 567 x 10)
8	Identify multiples and factors, including all factor pairs of a number and common factors of two numbers.
9	Establish whether a number up to 100 is prime and recall prime numbers to 19.
10	Recognise and use square numbers and cube numbers.
11	Convert mixed numbers to improper fractions and vice versa.
12	Find equivalent fractions. Use this knowledge to add and subtract numbers with different denominators and to order fractions with different denominators.
13	Read and write decimal numbers as fractions e.g. 0.71 = 71/100
14	Calculate: Add numbers with up to 5 digits using the formal column method

15	(including in the context of real life e.g. money, measures etc)	Subtract numbers with up to 5 digits using the formal column method
16		ThHTO x O (using formal written method)
17		ThHTO x TO (using formal written method)
18		ThHTO ÷ O (using formal written method)
29	Apply calculations to:	Missing number sentences
20		Balance sentences with more than 1 equal sign

YEAR 6

Name
Class

<table>
<tr><td colspan="2" align="center">Year 6 Non-Negotiables</td></tr>
<tr><td colspan="2">1.Read, write and order numbers up to 10, 000, 000 and determine the value of each digit. Explain value of digits to 3 decimal places</td></tr>
<tr><td colspan="2">2. Round any whole number to a required degree of accuracy</td></tr>
<tr><td colspan="2">3. Use negative numbers in context, and calculate intervals across zero.</td></tr>
<tr><td colspan="2">4. Order a mixed set of numbers to 3 decimal places</td></tr>
<tr><td colspan="2">5. Multiply one digit numbers with up to two decimal places by whole numbers e.g. 4.35 x 6</td></tr>
<tr><td colspan="2">6. Calculate percentages of numbers e.g 35% of 700</td></tr>
<tr><td colspan="2">7. Add and subtract decimals to 3 decimal places</td></tr>
<tr><td colspan="2">8. Multiply and divide decimals and whole numbers by 10 and 100 and 1000.</td></tr>
<tr><td colspan="2">9. Compare and order fractions including fractions > 1</td></tr>
<tr><td colspan="2">10. Divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$)</td></tr>
<tr><td colspan="2">11. Multiply simple pairs of proper fractions, writing the answers its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)</td></tr>
<tr><td colspan="2">12. Identify multiples and factors, including all factor pairs of a number and common factors of two numbers.</td></tr>
<tr><td colspan="2">13. Establish whether a number up to 100 is prime and recall prime numbers to 19.</td></tr>
<tr><td colspan="2">14. Recognise and use square numbers and cube numbers.</td></tr>
<tr><td colspan="2">15. + and – of fractions with different denominators, inc. mixed numbers</td></tr>
<tr><td colspan="2">16. Add and subtract numbers with up to 5 digits using the formal column method</td></tr>
<tr><td colspan="2">17. ThHTO x TO (using formal written method)</td></tr>
<tr><td colspan="2">18. ThHTO ÷ TO (using formal written method)</td></tr>
<tr><td>Apply calculations to:</td><td>19.   Missing number sentences</td></tr>
<tr><td></td><td>20.   Balance sentences with more than 1 equals sign</td></tr>
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