

## **Garfield School Calculation Policy**

Ratified and agreed by governing body 18th March 2019

- Garfield School follows the Abacus Maths Scheme.
- For Reception and KS1 there is no expectation that children use any formal written methods.
- Informal mental maths methods, the use of apparatus and jottings suitable for these year groups are set out in the Abacus documents that are attached to this policy (*ABACUS KS1 calculation strategies, ABACUS Reception calculation strategies*).
- Formal written methods are introduced at year 3.
- The methods outlined for the earlier years in KS2 (years 3 and 4) are more concrete, i.e. they break down the calculations so that the children understand how they are manipulating the numbers to calculate the answer.
- The children move on to more formal calculations in years 5 and 6.
- The policy uses a combination of ABACUS methods and strategies taken from the Enfield Calculation policy.



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racting nd 10s	<u>1s</u>				<u>Countin</u> and
10 0 8	32	33	34		
10, 9, 8	42	43	44		0 10
, 43, 33	52 /	1	54		
Gubtrac	tion	1 -			<u>Grou</u>
onds to 10/20					e.g. three lots of four
or 20-16 = ?)					
number					
he e e la					

Division ication X **Doubling and halving to 10** <u>ng in 2s</u> **10s** 2 2 2 2 2 2 20 Grouping uping e.g. three lots of four **Sharing** 

e.g. find half of 16 cubes by giving one each repeatedly to two children













Division 💾 Division by counting on  $28 \div 7 = 4$ 4 x 7 = 28 1 21 - 28 **20** ÷ **6** = **3 r**.**2** 3 x 6 + 2 = 20 1 - 6 - 12 - 18 - 18- 20 R2 **84** ÷ **7** = **12** 12 x 7 = 84 0 - 10 70 - 77 - 8410 + 1 + 1 = <u>12</u> Short division (bus stop method) 252 ÷ 4 = <u>063</u> 2 5¹2 4 How many 4s in 2? = 0 r.2 How many 4s in 25? = 6 r.1 Place the answer at the top and the remainder in front of the next number.

How many 4s in 12? = 3 Place the answer at the top.







Multiplication	V

**Short and long Multiplication** 



Division <u>Short division (bus stop method)</u> <u>Including decimals</u>

How many 4s in 7? = 1 r.3How many 4s in 31? = 7 r.3How many 4s in 32? = 8Place the answers at the top.

Long division

338

<u>26</u>↓

078

13

<u>26</u>

7112

4

<u>(Times Tables –</u> <u>Up to 12x12 and</u> <u>related division facts)</u>