

St Meriadoc CE Infant Academy: Non-Negotiables

KIRFs/Times tables to be practiced on a daily basis by all classes to ensure all other skills are embedded.

Mental Mathematics



Key Skills: Fluency

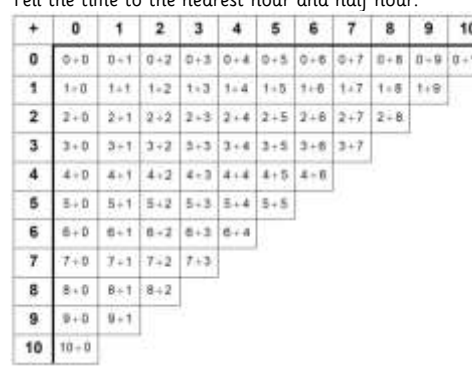
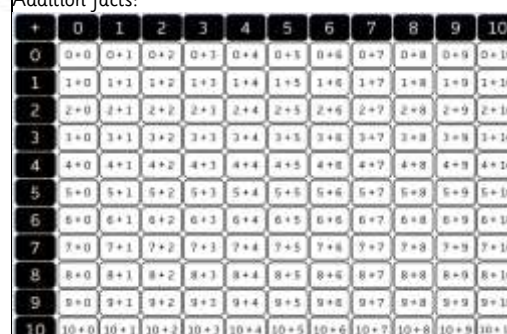
Recall a range of calculations using mixed operations.

Recall shape names/properties.

Add and subtract using a range of strategies.

Tell the time.

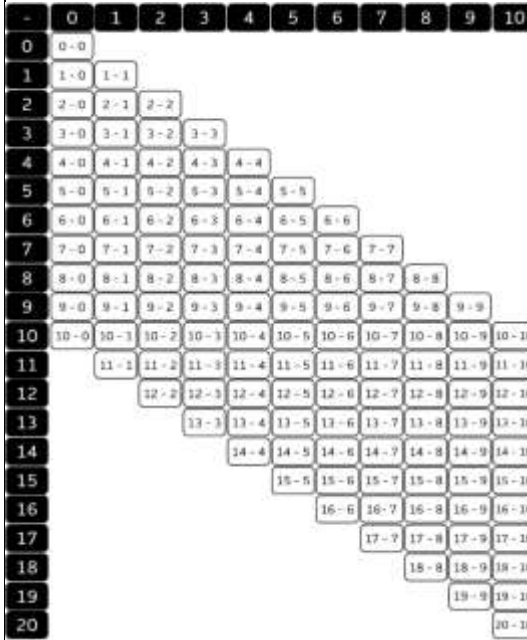
Be confident, secure and happy in mental number knowledge.

| | Nursery Birth to 3 yrs | Dragonflies Nursery 3-4 yrs | Reception | Year 1 | Year 2 |
|---------------------------|--|--|---|--|---|
| Mental Mathematics | <p>Count in 1's from 0-5 and beyond, forwards and backwards (through songs, chants and rhymes).</p> <p>Subitise to recognize amounts of objects/pictures to 3 without counting, e.g. in the role-play area with food.</p> <p>Notice quickly when a group has 'more' or 'a lot' of objects compared to another.</p> | <p>Count in 1's from 0-10 and beyond, forwards and backwards.</p> <p>Subitise to recognize amounts of objects/pictures to 3/4 without counting.</p> <p>Make finger amounts quickly to 5.</p> <p>Recognise Numicon pieces to 5 and match to a numeral – by their shape and colour.</p> <p>Notice quickly when a group has 'more', 'a lot' or the same number of objects compared to another.</p> <p>Follow a positional language instruction quickly.</p> <p>Recall names of simple 2D and some 3D shapes.</p> | <p>Count in 1s from 0-20 and beyond forwards and backwards.</p> <p>Subitise amounts to 5.</p> <p>Recall number bonds to 5 (without aids) – addition and subtraction facts.</p> <p>Recall some number bonds to 10 (without aids) – addition and subtraction facts.</p> <p>Recall the double facts to double 6.</p> <p>Recall and spot odd and even numbers within 10.</p> <p>Compare sets of objects to 10 - Use the language of 'greater than', 'less than', 'fewer' and 'the same' to compare two sets of objects quickly.</p> <p>Say one more/less than a given number.</p> | <p>Count in 1s from 0-100 forwards and backwards from any number.</p> <p>Confidently count in 2,5 and 10 times tables and answer corresponding questions.</p> <p>KIRFs:</p> <ul style="list-style-type: none"> Number bonds for each number to 10. Doubles and halves of numbers to 10. Tell the time to the nearest hour and half hour.  <p>Know that addition can be done in any order.</p> <p>Find a small difference by counting up.</p> | <p>Confidently count in 2,5,10,3 times tables and answer corresponding questions.</p> <p>KIRFs:</p> <ul style="list-style-type: none"> Revision of number bonds to 10. Number bonds for each number to 20. Doubles and halves of numbers to 20. Multiplication and division facts for the 2, 5 and 10 times tables. Tell the time to the nearest hour, half hour, quarter hour, 5 minutes. <p>Addition facts:</p>  |

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| | | <p>Add simple numbers mentally, including the doubles e.g. $1+1$, $2+2$, $3+3$, $4+4$, $5+5$.</p> <p>Subtract simple numbers mentally, including a half of a double, e.g. $2-1$, $4-2$, $6-3$, $8-4$, $10-5$.</p> <p>Begin to count in steps of 2, 5 and 10</p> <p>Recall names of 2D shapes.</p> <p>Know simple properties of 2D shapes.</p> <p>Know some names of 3D shapes.</p> <p>Mathematical reasoning and explaining strategies.</p> | <p>Know how to add 9 to a number by adding 10 and subtracting 1.</p> <p>Use addition and subtraction as inverse operations.</p> <p>Know days, months and seasons in order.</p> <p>Know properties of 2D and some 3D shapes e.g. name the shape.</p> <p>Practice counting around the clock- 5's, 10's etc and use appropriate language.</p> <p>Understand how to read scales quickly.</p> <p>Mathematical reasoning and explaining strategies.</p> | <p>Subtraction facts:</p>  <p>Find a difference by counting up using 2-digit numbers.</p> <p>Know patterns of similar calculations e.g. $3+5=8$, $13+5=18$, $30+50=80$.</p> <p>Know the inverse calculations for addition and subtractions when asked and prompted.</p> |
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| | | | | | <p>Add and subtract mentally: a two-digit number and ones, a two-digit number and tens, two two-digit numbers, adding three one-digit numbers.</p> <p>Use knowledge of number facts and place value to multiply or divide mentally e.g. $10/2 = 5$</p> <p>Know left/right, quarter, half and three-quarter turns and show this physically.</p> <p>Know the properties of 2D and 3D shapes and describe them accurately.</p> <p>Understand how to read and interpret scales accurately.</p> <p>Mathematical reasoning and explaining strategies.</p> |
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