Whole- School- Number Fact Fluency (Ready to Progress)

Using the National Curriculum (and professional Judgement), these skills have been compiled to highlight the expectations in Number fact fluency at Birkwood Primary.

Fluency development features in every lesson through mental arithmetic starters, and we consistently provide opportunities for our children to apply within maths lessons. We believe that by working to secure fluency, we are reducing cognitive overload, therefore providing the best possible opportunity for our children to progress quickly (and in depth) in all strands of maths and build competent mathematicians of the future.

| | EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|-------------|--------------------------------------|--|--|------------------------|--|---------------------------------------|-------------------------------------|
| Number and | •Say the number | Count to and | Count in steps of 2, | • Count from 0 in | Count in multiples | Count forwards or | Round any whole |
| Place Value | names in order to 5 | across 100, | 3 and 5 from any | multiples of 4, 8, | of 6, 7, 9, 25 and | backwards in steps | |
| | | forwards and | given number, | 50 and 100; find 10 | | of powers of 10 for | required degree of |
| | •Say the number | backwards | forwards and | or 100 more or less | | any given number | accuracy |
| | names in order to 10 | (starting from 0, 1, | backwards | than a given number | • Find 1000 more or | up to 1,000,000 | •Know all decimals |
| | 10 | or any given number) | • Count in 10s from | Hullibel | less than a given number | | that total 1 and 10. |
| | ●Partition numbers | (Humber) | | • Read and write | Hullibei | and backwards | (1dp) |
| | to 5 into two groups | Count in multiples | forwards and | numbers to a 1000 | Count backwards | with positive and | |
| | (i.e $5=3+2$) | of 2, 5 and 10 | backwards | in numerals and | through zero to | negative whole | |
| | , | - | | words | include negative | numbers, including | |
| | Count forward and | | Read and write | | numbers | through zero | |
| | backwards in ones | less than a given | numbers to at least | | | | |
| | from any number up | number | 100 in numerals | | _ | • Round any number | |
| | to 10 | Dood and write | and words | | to the nearest 10, | up to 1,000,000 to | |
| | Count forwards and | Read and write numbers 1-20 in | Know all addition | | 100 or 1000 | the nearest 10, 100, 1000, 10,000 | |
| | backwards in ones | numerals and | and subtraction | | • Read Roman | and 100,000 | |
| | from any number up | | facts within 20 e.g. | | numerals to 100 | | |
| | to 20 | | 7 + 8 = 15 | | | • Read Roman | |
| | | | | | (| numerals to 1000 | |
| | •To recall number | | | | | (M) and recognise | |
| | symbols with | | | | | years written in | |
| | cardinal value (up to | | | | | Roman numerals. | |
| | 10) | | | | | •Know all decimals | |
| | | | | | | that total 1 and 10. | |
| | | | | | | (1dp) | |
| | | | | | | K F / | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Subtraction to 5 and then 10 | Add and subtract 1 within 10. Add and subtract 2 within 10 Know all the addition facts within 10. Represent and use number bonds and related subtraction facts within 20 (13 + 7 = 20 7 + 13 = 20 20 - 13 = 7 20 - 7 = 13) *Fact Families | Add and subtract numbers mentally including: a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers | Add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens a three-digit number and hundreds Basell and the second sec | Add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens a three-digit number and hundreds Decayly | Add and subtract numbers mentally with increasingly large numbers Know all decimals that total 1 and 10. (1dp) | Perform mental calculations including mixed operations and large numbers Perform mental calculations including mixed operations and large numbers |
|---|---|---|---|---|---|--|
| Multiplication and Division (Whole School Calculation Policy) -Solve problems with doubling and halving | Doubling and halving within 10. Count in 2s, 5s and 10s 1x table (1 group of) | 2,3 and 5 from 0 and in 10s from any number forwards or backwards. •Recall and use multiplication and division facts for the 2, 3, 5 and 10 multiplication tables, including recognising odd and | 3, 4 and 8 multiplication tables •Recall x 6 x 12 •Revise X2, X5, X10 multiplication tables •X6 and X12 tables | Recall multiplication and division facts for multiplication tables up to 12×12 Recognise and use factor pairs in mental calculations | Identify multiples and factors including: finding all factor pairs of a number, common factors of two numbers Know the decimal and percentage equivalents of the fractions ½, ¼, ¾ Establish whether a number up to 100 is prime and recall prime numbers up to 19 Know square numbers and square roots to 12 x 12 Know pairs of factors of numbers up to 100 | and 1/5s |