## St Elizabeth's Catholic Voluntary Academy

## Progression in Arithmetic

| FS2 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
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| Advent <br> Recognise 'few/lots' Understands just right Recognises less/more than and the same. <br> Recognises most/least and the same. <br> Counting to 10 <br> Recognises 1-5 <br> Picks out one object at a time from a pile. <br> My hand has 5 fingers, I have 10 fingers. <br> Counting to 15. <br> Recognises 1-13 <br> 1:1 correspondence - picks out one object at a time from a pile. <br> Can count back, taking away with support. <br> Counting to 20 <br> Counting from 20-29 <br> Count in 10s <br> Recognises 1-10 <br> 1:1 correspondence counting up to 10 objects. <br> Double facts up to 3 <br> My halving learn its up to 3 . | Advent <br> Recap any FS2 objectives. <br> Count forward and backwards to 10. <br> One more/ one less with numbers to 10. <br> Ordering number/ greater than less than signs. <br> Part whole within 10 <br> Addition and subtraction within 10. <br> Counting in $2 s$ to 20 , 5 s to 100 and 10 s to 100 <br> 'Learn its' with number bonds to 10 <br> Numbers to 20 | Advent <br> Recap any Y1 objectives. <br> Recognise the place value of each digit in a two-digit number (tens, ones). (WTS TAF 2) <br> Partition two-digit numbers into different combinations of tens and ones. (EXS TAF 9) <br> Read and write numbers to at least 100 in numerals (WTS TAF 1) and in words. <br> Count in steps of 2 and 5 from <br> 0. (WTS TAF 5) <br> Compare and order numbers from 0 up to 100; use $<,>$ and $=$ signs. <br> Recognise odd and even numbers. <br> Recall addition and subtraction facts to 20 , using number bonds to 10. (EXS TAF 11) <br> Recall doubles and halves to 20. <br> +/- two-digit numbers and tens. (EXS TAF 3) <br> +/- two-digit number and ones (EXS TAF 3); <br> + three one-digit numbers. <br> Solve word problems with +/(up to 2, two-digit numbers) (EXS TAF 10) | Advent <br> Recap any Y2 objectives <br> $1 / 10 / 100$ more or less <br> Count in 50s <br> Partition three-digit numbers e.g. $789=700+80$ $+9$ <br> +/- multiples of $10 / 100$ using known facts $9-2=7,90-$ $20=70,900-200=700$ <br> $x / \div$ by 2,5 and 10 <br> +/- a 1-digit number to a 2/3-digit number (crossing tens) <br> +/- multiples of 10 to a 2/3digit number e.g. $456+30$ <br> +/- multiple of 100 e.g. 148 + $\qquad$ $=648$ <br> Column method no exchange <br> Column method exchange | Advent <br> Recap any Y3 objectives <br> Round to 10/100/1000 <br> Count in 1000s <br> Partition 4-digit numbers <br> e.g. $8345=8000+300+40$ <br> $+5$ <br> 1/10/100/1000 more or less <br> Roman numerals and calculations with Roman numerals <br> Column method +/- with exchange <br> Subtract by counting on e.g. 804-796 <br> $x$ by 10 and 100 <br> $\div$ by 10 and 100 <br> $x$ by 1 and 0 e.g. $4 \times 3 \times 1$ or <br> $4 \times 0 \times 3$ <br> $\div$ by 1 and itself e.g. $9 \div 1$ <br> and $9 \div 9$ <br> $x / \div 3,6,9$ and 7 | Advent <br> Recap any Y4 objectives <br> Round numbers to the nearest 10/100/1000/10000/100000 <br> Roman numerals and calculations with Roman numerals <br> Compare numbers to 1,000,000 <br> + and - numbers with exchange <br> Multiples/factors <br> Squared and cubed numbers <br> $x / \div$ by 10,100 and 1000 | Advent <br> Recap any Y5 objectives <br> +/- numbers up to 1,000,000 <br> Short and long $x$ <br> Short and long $\div$ including decimal remainders <br> Factors <br> Multiples <br> Prime numbers <br> Squared and cubed numbers <br> Order of operations <br> Improper fractions to mixed numbers and vice versa <br> $x / \div$ by 10,100 and 1000 <br> $10 \%$ and $1 \%$ of an amount <br> +/- fractions <br> +/- mixed numbers <br> x fractions by whole numbers <br> x fractions by fractions <br> divide fractions by whole numbers <br> Find fractions of an amount |

$\left.\begin{array}{|l|l|l|l|l|l|}\hline & & \begin{array}{l}\text { Recall } x \text { facts for the } \times 2 \text {, } \times 5 \text { and } \\ \text { x10 multiplication tables. (EXS } \\ \text { TAF 12) }\end{array} & & \\ \text { Solve problems involving } \\ \text { multiplication (EXS TAF 12) }\end{array}\right]$

|  |  | Solve problems involving multiplication and division, repeated addition and mental methods, including problems in contexts. (EXS TAF 12) <br> Find simple fractions of numbers, for example, $1 / 2$ of $6=$ 3 (EXS TAF 13) <br> Recognise, find, name and write fractions $1 / 4,2 / 4$ and $3 / 4$ of a set of objects. (EXS TAF 13) <br> Recognise the equivalence of $2 / 4$ and $1 / 2$. |  |  |  |  |
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| Pentecost <br> Counting up to 100 <br> Reading numbers - 1-20 <br> Actual counting - up to 20 <br> objects <br> Ordering numbers - 5 out of number 1-10 (non- <br> consecutive) <br> Counting multiples of 5-50 <br> Counting backwards from 20 <br> Double facts up to 10 <br> Half its up to 10 <br> I can add by counting on $2,3,4,5$. <br> I can add the right amount and count how many altogether. <br> I can add numbers of objects to 10 | Pentecost <br> All Advent and Lent Objectives <br> Numbers to 100 <br> Halving with odd numbers up to 20 | Pentecost <br> All Advent and Lent Objectives <br> Count in steps of 3 from 0 . <br> Partition 2-digit numbers into different combinations of tens and ones (EXS TAF 9) <br> Recall and use +/- facts, doubles and halves to 20 fluently and derive and use related facts up to 100 . <br> +/- two 2-digit numbers using written methods. (EXS TAF 10) <br> +/- numbers mentally: two 2digit numbers (EXS TAF10) <br> Recognise and use the inverse relationship between $+/$ - and use this to find related facts (EXS TAF 11), check calculations | Pentecost <br> All Advent and Lent objectives | Pentecost <br> All Advent and Lent objectives | Pentecost <br> Advent and Lent objectives and <br> Find $10 \%$ of a number by dividing by 10 <br> Double and halve numbers up to 10,000 | Pentecost <br> All Advent and Lent objectives |


| I can take away the right amount (and find out how many are left), <br> I can take away numbers of objects to 10 <br> I can give objects out fairly Counting multiples of $10-0$ - 100 <br> Counting multiples of 2-10 Counting backwards from 10 (extend to 20) <br> I can read a subtraction number sentence | and solve missing number problems. <br> Solve word problems with +/including those involving quantities and measures. <br> Reason about $+/$ - e.g. the sum of 3 odd numbers will always be odd. (GDS TAF 19) <br> Can solve two step word problems. (GDS TAF 20) <br> Recall and use $x / \div$ facts for the $\mathrm{x} 5, \mathrm{x} 2$ and x 10 multiplication tables, including recognising odd and even numbers. (EXS TAF 12) <br> Demonstrate an understanding of commutative law in multiplication (EXS TAF 12) <br> Solve problems involving multiplication and division using multiplication and division facts, including problems in contexts. (EXS TAF 12) <br> Reason about multiplication and make deductions e.g. $18 \times 5$ cannot be 92 as 92 is not a multiple of 5. (GDS TAF 18) <br> Solve divisions with remainders. <br> Recognise, find, name and write fractions $1 / 3,1 / 4,2 / 4$ and $3 / 4$ of shapes and a quantity. (EXS TAF 13) <br> Compare fractions of amounts <br> e.g. $1 / 4$ of 20 is more than $1 / 2$ of 8 . |  |  |  |  |
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