## Together Through Christ We Grow and Learn

## My Year 5 Learning Journey for Mathematics

| Strand | I am Working Towards Year 5's objectives with |
| :--- | :--- | support (Emerging) ean order numbers to 10,000 and use symbols to compare. I can say what each number represents.

I can count forwards or backwards from any number to 10,000 in different size steps eg forwards or backwards from 9,875 in steps of 1000,100 and 10

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5
I can work out x and $\div$ facts from the times tables up to $10 \times 10$, with some help.

6 I can work out calculations like $234+265$ and $834-365$ using formal column methods, with some help.

I can multiply a 2 digit by a 1 digit number using a short written method. I can calculate $94 \times 7$ and $4 \times 32$ using a formal written method such as the grid method.
8
I can divide a 3 digit number by a 1 digit number using chunking, relating a formal written method for short division.

I can list the factors of numbers below 10 and arrange them in pairs that multiply to give 10. I can begin to explain what a prime number is, with some help. I can list the first five square numbers. I can use RUCSAC to help me solve real life problems, involving addition, subtraction, multiplication and division, with some help.

I can work out simple calculations with a missing number like $2+$ $?=11$.
I can use doubling to create a set of equivalent fractions such as $1 / 2$, $2 / 4,4 / 8$ using equipment and with some help.
I can use pictures, diagrams or equipment to show an improper fraction like $11 / 2$, with some help.

I can identify the smaller out of two fractions eg $3 / 8$ and $1 / 4$ with pictures to help me.

## I am Working Towards Year 5's objectives (Developing)

I can order numbers to 100,000 and use symbols to compare.
I can say what each number represents.

I can read, write, order and compare using < > = numbers with up to two decimal places and say what each digit represents. I can give a number lying between any two of these numbers and round them to the nearest whole number.

I can count forwards or backwards from any number to 100,000 in different size steps eg forwards or backwards from 62,471 in steps of $10,000,1000$, 100 and 10 .

I can multiply and divide whole decimal numbers with up to two decimal places by 10 and 100 eg work out $2.1 \times 10=21$ and $56 \div 100=0.56$.

I can work out x and $\div$ facts from the times tables up to $10 \times 10$ and use my knowledge of these facts to multiply and divide larger numbers mentally eg 9 x 70 or $4 \times 30$
I can work out calculations like $8234+3265$ and $8234-3265$ using formal
column methods.

I can multiply a 3 digit by a 1 digit number using a short written method. I can calculate $964 \times 7$ and $64 \times 32$ using a formal written method such as the grid method.

I can calculate $714 \div 6$ using chunking, relating it to the formal written method of short division, and solve problems such as 'Lin wishes to buy 45 bottles of water. They are sold in packs of eight bottles. How many packs must she buy?' although $I$ am often unsure of how to deal with the remainder.
I can list the factors of numbers below 30 and arrange them in pairs that multiply to give 24. I can identify the prime numbers below 10 . I can list the first eight square numbers and interpret $5^{2}$ as $5 \times 5=25$.

I can solve multi-step real-life problems involving $+,-, x, \div$ eg 'Dan has $\mathfrak{f} 5$. He needs to keep $£ 1.40$ for the bus fare home. Can he afford a sandwich costing $£ 1.90$ ?'
I can understand how the equals sign is used in calculations and can solve simple missing number 'balancing sums eg $4+?=10+2$.
I can use doubling to create a set of equivalent fractions such as $1 / 3,2 / 6,3 / 9$.
I can write mixed numbers as improper fractions eg 1 and $1 / 4$ as $5 / 4$ and, with pictures or apparatus explain my answer.

I can order and compare fractions using a common denominato

I am Achieving Year 5's objectives (Secure)

* I can read, write, order and compare using < > = whole numbers up to $1,000,000$ ( 1 million) and say what each digit represents. I can give a number lying between any two of these numbers.
* I can read, write, order and compare using < > = numbers with up to three decimal places and say what each digit represents. I can give a number lying between any two of these numbers and round them to the nearest whole number.

I can count forwards or backwards with positive and negative numbers, passing through zero. I can solve real-life problems involving ordering negative numbers eg which is colder, $-2^{\circ} \mathrm{C}$ or $-10^{\circ} \mathrm{C}$ ?
*I can multiply and divide whole and decimal numbers with up to three decimal places by 10,100 and 1,000 .
*I can quickly recall $\mathbf{x}$ and $\div$ facts from the times tables up to $12 \times 12$ and use my knowledge of these and other number facts to multiply and divide larger numbers mentally eg $25 \times 80 \times 2.5$

* I can add and subtract whole numbers with more than four digits, using column addition and sbtraction. I can use column addition or subtraction to add and subtract whole numbers and decimal numbers with 3 decimal places or a mixture of 1 and 2 decimal places eg 2.87-0.9, 3.4 +1.76.
*I can multiply a 4 digit by a 1 digit number using a short written method. I can multiply a 2 digit number by another 2 digit number using a written long multiplication method.
*I can divide a 4 digit number by a 1 digit number using a formal written method for short division. I can decide how to show or deal with any remainders, depending on the problem.

I can find all the factor pairs of any number to 50 and find the common factors of two numbers. I can correctly list the prime numbers up to 19. I know all square and cubed numbers up to $\mathbf{1 0 0}$.
*I can solve multi-step 'real-life' problems (including money) involving,+ ,, $\mathbf{x}, \div$ or more than one of these. I can choose which operation and method to use and explain why.
*I have a good understanding of the equals sign = and can solve a range of missing number problems eg $3+12=?-4, ?+?+8=?+11,5 \times ?=18+12$.
*I can find, say and write equivalent fractions, using my $x$ tables or a fraction wall to help.
I can recognise mixed numbers and improper fractions and change one to the other
*I can compare, order, add and subtract fractions with the same denominator and denominators that are multiples of the same number eg $2 / 3<13 / 18 \quad 3 / 4+5 / 12$


## My Learning Reflection

## Autumn Test Score:

## Spring Test Score:

## Summer Test Score:

## DO NOT PRINT THIS PAGE

- All steps with an asterisk are KPI’s (Key Performance Indicators)
- Numbering has no significance but is for ease of reference.
- 'Most' or 'Mostly' or 'nearly always' indicates that the statement is generally met with only occasional errors. If this is not specified in the 'Secure' column, the assumption is that the statement is nearly always met.
- 'Often' indicates that the skill is correctly demonstrated more often than not ie on more than half of occasions attempted.
- 'Some' or 'sometimes' indicates that the skill / knowledge is starting to be acquired, and is demonstrated correctly on occasion, but is not consistent or frequent.
- 'With support / help' indicates that the child needed some level of support or intervention to achieve the statement. If support is not specified, the assumption is that the child could achieve the statement independently.

