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| **Year Group** | **Autumn**   | **Spring** | **Summer** |
| **FS** | **FS1*** **COLOUR – 2 WEEKS**
* **MATCH – 2 WEEKS**
* **SORT – 2 WEEKS**
* **NUMBER 1 – 1 WEEK**
* **NUMBER 2 – 2 WEEKS**
* **PATTERN – 2 WEEKS**
* **CONSOLIDATION**
 | **FS1*** **NUMBER 3 – 2 WEEKS**
* **NUMBER 4 – 2 WEEKS**
* **NUMBER 5 – 2 WEEKS**
* **CONSOLIDATION 5 – 1 WEEK**
* **NUMBER 6 –INTRODUCE 10 FRAME – 1 WEEK**
* **HEIGHT AND LENGTH – 1 WEEK**
* **MASS – 1 WEEK**
* **CAPACITY – 1 WEEK**
* **CONSOLIDATION – 1 WEEK**
 | **FS1*** **SEQUENCING – 1 WEEK**
* **POSITIONAL LANGUAGE – 1 WEEK**
* **MORE THAN/FEWER THAN – 1 WEEK**
* **SHAPE 2D – 1 WEEK**
* **SHAPE 3D – 1 WEEK**
* **CONSOLIDATION**
* **NUMBER COMPOSITION 5 – 1 WEEK**
* **WHAT COMES AFTER – 1 WEEK**
* **WHAT COMES BEFORE – 1 WEEK**
* **NUMBERS TO 5 – 1 WEEK**
* **CONSOLIDATION – 2 WEEKS**
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| **FS2*** **GETTING TO KNOW YOU**
* **MATCH, SORT AND COMPARE**
* **TALK ABOUT MEASURE AND PATTERNS**
* **IT’S ME 1,2,3**
* **CIRCLES AND TRIANGLES**
* **1,2,3,4,5**
* **SHAPES WITH 4 SIDES**
 | **FS2*** **ALIVE IN 5**
* **CAPACITY**
* **GROWING 6,7,8**
* **LENGTH, HEIGHT AND TIME**
* **BUILDING 9 AND 10**
* **EXPLORE 3D SHAPES**
 | **FS2*** **TO 20 AND BEYOND**
* **HOW MANY NOW?**
* **MANIPULATE, COMPOSE AND DECOMPOSE**
* **SHARING AND GROUPING**
* **VISUALISE, BUILD AND MAP**
* **MAKE CONNECTIONS**
* **CONSOLIDATION**
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| **YEAR 1** | **Fluency Bee** | **Fluency Bee** | **Fluency Bee** |
| **WHITE ROSE LONG TERM PLANNING V3** |
| **Number and place value (within 10)****Addition and subtraction (within 10)****Geometry – shape****Consolidation** | **Place value (within 20)****Addition and subtraction (within 20)****Place value within 50****Length and height****Mass and volume** | **Multiplication and division****Fractions****Position and direction****Place value (within 100)****Measurement – money****Measurement – time****Consolidation** |
| **YEAR 2** | **Fluency Bee** | **Fluency Bee** | **Fluency Bee** |
| **Times Tables****Autumn 1:** * **Consolidate counting in steps of 2, 5 and 10 in order from 0 up to 12x**

**Autumn 2:** * **Count in steps of 2 and 5 from 0 up to 12x fluently.**
* **Recall multiples of 10 up to 12x10 in any order, including missing numbers and related division facts with growing fluency.**
 | **Times Tables****Spring 1:** * **Recall multiples of 2 up to 12x2 in any order, including missing numbers and related division facts.**
* **Recall multiples of 10 up to 12x10 fluently.**

**Spring 2:** * **Recall multiples of 5 up to 12x5 in any order, including missing numbers and related division facts.**
* **Recall multiples of 2 up to 12x2 in any order, including missing numbers and related division facts with growing fluency**
 | **Times Tables****Summer 1:** * **Count in multiples of 3 to 12x3 in order from 0. Recall multiples of 2 up to 12x2 in any order, including missing numbers and related division facts fluently.**
* **Recall multiples of 5 up to 12x5 in any order, including missing numbers and related division facts with growing fluency.**

**Summer 2:** * **Count in multiples of 3 to 12x3 in order from 0 with growing fluency.**
* **Recall multiples of 5 up to 12x5 in any order, including missing numbers and related division facts fluently.**
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| **WHITE ROSE LONG TERM PLANNING V3** |
| **Place Value****Addition and subtraction****Shape** | **Money****Multiplication and division****Time****Shape** | **Fractions****statistics****Position and Direction****Length and Height****Time** |
| **YEAR 3**  | **Counting and Mental Calculations:****Numbers and counting*** **Read 3-digit numbers using place value**
* **Partition a 3-digit number**
* **Partition a 4-digit number**
* **Count in 20s, 200s, 2000s**
* **Count along a number line**
* **Count in 100s**
* **Count in 1/10, 0.1**
* **Partition a 1 decimal place number.**

**Addition*** **Begin to add multiples of 10 to a 2 digit number E.g 25+30 (by counting in 10s or partitioning)**
* **Choose most efficient mental strategies such as 63 + 29 is the same as 63 + 30 -1**
* **Use number bonds to 10 when adding strings of single digit numbers E.g 6+3+4+9=**
* **Number bonds to 100 E.g 36+64 (using known facts.**

**Subtraction*** **Counting on, deriving subtraction facts to 20 if relevant E.g 19-17=2**
* **Find a small difference by counting up from the smallest number**
* **Say or write a subtraction statement corresponding to a given addition statement.**
* **Subtracting nearest multiple of 10 and adjusting.**

**Multiplication:*** **Through doubling, connect 2/4/8 x tables**
* **Write and calculate mathematical statements for multiplication and division using the times tables that they know, including for 2-digit numbers x 1-digit numbers.**
* **Multiply a number by 10/100 using place value – shifting digits to the left.**

**Division*** **Use counting in 3s, 5s, 10s, to derive division facts phrased as how many groups of 3 in 12 etc**
* **Say/write a division statement corresponding to a multiplication statement**
* **Divide a number by 10/100 using place value – shifting digits to the right.**
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| **Instant Recall:*** **Doubles of even numbers to 100**
* **Halves of even numbers to 100 (including recognising 18 divided by 2 as finding a half).**
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| **Times Tables****Autumn 1:** * **Count in multiples of 3 to 12x3 in order from 0 fluently**

**Autumn 2 :*** **Recall multiples of 3 up to 12x3 in any order, including missing numbers and related division facts with growing fluency.**
* **Count in multiples of 4 to 12x4 in order from 0 with growing fluency.**
* **Introduce (relating to x4) and begin to count in multiples of 8 from 0 to 12x8**
 | **Times Tables****Spring 1:** * **Recall multiples of 3 up to 12x3 in any order, including missing numbers and related division facts fluently.**
* **Count in multiples of 4 to 12x4 in order from 0 with fluently.**
* **Count in multiples of 8 to 12x8 in order from 0 with growing fluency**

**Spring 2:** * **Recall multiples of 4 up to 12x4 in any order, including missing numbers and related division facts with growing fluency.**
* **Count in multiples of 8 to 12x8 in order from 0 fluently**
 | **Times Tables****Summer 1:*** **Recall multiples of 4 up to 12x4 in any order, including missing numbers and related division facts fluently.**
* **Recall multiples of 8 up to 12x8 in any order, including missing numbers and related division facts with growing fluency.**

**Summer 2:*** **Recall multiples of 8 up to 12x8 in any order, including missing numbers and related division facts fluently**.
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| **WHITE ROSE LONG TERM PLANNING V3** |
| **Place Value****Addition and subtraction****Multiplication and division** | **Multiplication and division****Length and perimeter****Fractions****Volume and capacity** | **Fractions****Money****Time****Shape****Statistics****Consolidation** |
| **YEAR 4**  | **Counting and Mental Calculations:****Numbers and Counting*** **Read up numbers up to 4 digits**
* **Partition larger numbers using place value**
* **Partition a 2 decimal place number**
* **Count in 6/7/9**
* **Count in 25s, 250s, 2500s**
* **Count in 0.2s, 0.5s, 0.25s**
* **Count in 1/5**

**Addition*** **Add 3 or 4 small numbers using number bonds to 10**
* **Add 2 digits mentally using most efficient method e.g. partitioning, compensating, near doubles, bridging, counting on.**
* **Apply knowledge of number bonds to add 3-digit numbers e.g. 264 + 436**
* **Add thousands using known number bonds**
* **Add tenths**

**Subtraction*** **Subtract 2 digits mentally – 63 – 26 (counting on/back compensating or bridging)**
* **Find compliments to 100 e.g. 100 – 64 (counting on strategy)**
* **Add or subtract 9,19,29,11,21 et by rounding and compensating.**

**Multiplication*** **Derive multiplication and division facts.**
* **Use division facts to derive related facts e.g. 3 x 2 = 6, 30 x 2 = 60**
* **multiply whole numbers by 100 (13x100) using place value**

**Division*** **Use half and half again for division by 4**
* **Divide whole numbers by 10/100 using place value knowledge**
* **Divide whole numbers by 10/100 giving a decimal answer.**
* **Calculate division facts with remainders of 2,3,4,5,10 TT as decimals e.g. half of 3 = 1.5**
* **Find half of 2-digit numbers e.g. 38 divided by 2 = 19**
 |
| **Instant Recall:*** **Half of 30,50,70,90**
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| **Times Tables****Autumn 1:*** **Recall multiples of 3, 4 and 8 up to 12 x in any order, including missing numbers and related division facts fluently.**
* **Fluently count in 6’s in order up to 12 x 6, using multiples of 3 to support**

**Autumn 2:*** **Recall multiples of 6 in any order, including missing numbers and related division facts with growing fluency.**
* **Fluently count in 9’s in order up to 12 x 9, using multiples** of 3 to support.
 | **Times Tables****Spring 1:*** **Recall multiples of 6 in any order, including missing numbers and related division facts fluently.**
* **Recall multiples of 9 in any order, including missing numbers and related division facts with growing fluency.**
* **Explore the relationship between the 3, 6 and 9 times tables.**

**Spring 2:*** **Recall multiples of 9 in any order, including missing numbers and related division facts fluently (using 10 x and adjusting by 1 group to find 9 x as a strategy).**
* **Fluently count in 7’s in order up to 12 x 7. Fluently count in 11’s in order up to 12 x 11.**
 | **Times Tables****Summer 1:** * **Recall multiples of 7 in any order, including missing numbers and related division facts with growing fluency.**
* **Recall multiples of 11 in any order, including missing numbers and related division facts fluently.**
* **Fluently count in 12’s in order up to 12 x 12. Understand what happens when multiplying and dividing by 1. Understand what happens when multiplying by 0.**

**Summer 2:*** **Recall all times tables facts fluently.**
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| **WHITE ROSE LONG TERM PLANNING V3** |
| **Place Value****Addition and Subtraction****Area****Multiplication and division****Consolidation** | **Multiplication and division****Length and Perimeter****Fractions****Decimals** | **Decimals****Money****Time****Consolidation****Shape****Statistics****Position and Direction** |
| **YEAR 5** | **Counting and Mental Calculations:****Addition*** **Know number bonds to 1000**
* **Number bonds to 1 to 1DP**
* **Number bonds to 1 to 2DP**
* **add hundredths (0.03 + 0.04)**

**Subtraction*** **Use counting on/back e.g 2003-1999**
* **Use knowledge of number of number facts and place value to subtract pairs of 3-digit multiples of 10**
* **Use number bonds to 10 to 1DP/2DP**
* **Number bonds to 10/100 to 2 DP**

**Multiplication*** **Use place value to multiply a whole number by 10/100**
* **Divide decimals by 10/100**
* **Multiply 2 multiples of 10 together using known facts 40 x 30 (4 x 3)**
* **Use partitioning to multiply teens number by single digit 14 x 6 = 10 x 6/4x6**

**Division*** **Divide whole numbers by 10/100**
* **Divide decimals by 10/100**
* **Mental chunking e.g. £5 divided by 45p**
* **Find factors of numbers**
 |
| **Instant Recall:*** **Number bonds to 100**
* **Addition facts – 0.7 = 0.9**
* **Half of decimals**
* **Doubles of tenths to 0.9**
* **Half of 1,3,5,7,9,**
 |
| **TIMES TABLES**Recall multiples of 12 in any order, including missing numbers and related division facts fluently. Recall multiples of all times tables up to 12 x 12 in any order, including missing numbers and related division facts with growing fluency |
| **WHITE ROSE LONG TERM PLANNING V3** |
| **Place Value****Addition and subtraction****Multiplication and Division****Fractions A** | **Multiplication and division****Fractions B****Decimals and percentages****Decimals****Statistics** | **Perimeter and area****Shape****Position and Direction****Negative Numbers****Converting units****Volume** |
| **YEAR 6**  | **Counting and Mental Calculations:****Counting and Number*** **Understand numbers with different decimal places**
* **Find the gap between a negative number and a positive number**

**Addition*** **Decimal number bonds to 10/100 using 2 dp e.g. 2.33 + \_\_\_ = 10 32.64 + \_\_\_ =100**

**Subtraction** **AS Y5****Multiplication*** **Multiply decimals and whole numbers by 10/100/1000**
* **Multiply a 2-digit number by a single digit number.**

**Division*** **Divide decimals and whole numbers by 10/100/1000**
* **Identify common factors, common multiples and prime numbers.**
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| **Instant Recall:*** **Addition facts hundredths up to 0.09 e.g – 0.07 + 0.09 = 0.16**
* **Subtraction bonds to 100**
* **Times tables and place value calculations such as 40 x 3**
* **Squares of all integers 1 – 10**
* **Identify common factors, multiples and prime numbers**
* **Doubles of hundredths up to 0.9**
* **Square roots of square numbers to 100**
* **Halves of decimals to 1DP for even tenths**
* **Halves of decimals for odd tenths.**
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| **TIMES TABLES**Recall multiples of 12 in any order, including missing numbers and related division facts fluently. Recall multiples of all times tables up to 12 x 12 in any order, including missing numbers and related division facts with growing fluency |
| **WHITE ROSE LONG TERM PLANNING V3** |
| **Place value****Addition, subtraction, multiplication, division****Fractions A****Fractions B****Converting units****Shape and Geometry** | **Ratio****Algebra****Decimals****Fractions, decimals, percentages****Area, Perimeter and volume****Statistics** | **Shape****Position and direction****Above will be used for gaps in learning and revision.****Review and consolidation****White Rose/ Trinity Academy transition projects** |