OVERVIEW OF KIRFs (Key Instant Recall Facts) TERM-BY-TERM
woodstock

|  | RECEPTION | YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AUTUMN TERM 1 | Say the number names in order to 5 . | Know all the number bonds for 5 . | Know all number bonds for 10 and 20. | Know all number bonds for each number to 20. | Know all number bonds for 100. | Know all decimals that total 1 or 10 (1 decimal place) | Know all previous number bonds including decimals. |
| AUTUMN TERM 2 | Say the numbers in order to 10 | Know all number bonds for 10 | Know multiplication and division facts for $2 x$ table. | Know multiplication and division facts for $2 x, 4 x$ and $8 x$ table. | Know multiplication and division facts for the 7 x table. | Consolidate multiplication and division facts for all times tables. | Derive multiplication and division facts using decimal numbers (e.g. $8 \times 0.7=5.6)$ |
| SPRING TERM 1 | Be able to partition numbers to 5 into two groups | Know all number bonds for 20. | Know multiplication and division facts for 10x table. | Know doubles and halves of all whole numbers to 20 | Know the decimal and percentage equivalents of the fractions $1 / 2,1 / 4,3 / 4,1 / 3,2 / 3$, tenths and fifths | Know the doubles and halves of all two-digit numbers | Know doubles and halves of 2-digit decimals. |
| SPRING TERM 2 | Count in 10s | Know all doubles and halves of even numbers to 20 | Know the halves of $1,3,5,7$ and 9 as a fraction | Know all number bonds for 100 using multiples of 5 | Know all pairs of multiples of 50 with a total of 1000 . | Know the prime numbers within 100 | Know square numbers to $12 \times 12$. |
| SUMMER TERM 1 | Count in 2 s | Know all addition and subtraction facts for all numbers between 0 and 10. | Know all addition and subtraction facts for multiples of 10 to 100 . | Know all multiplication and division facts for $3 x, 6 x$ and $9 x$ table. | Know multiplication and division facts for the 11 and $12 x$ table. | Know all pairs of factors of numbers up to 100 . | Know the tests for divisibility for numbers up to 10 |
| SUMMER TERM 2 | Count in 5s | Count forward and backward in steps of 2, 5 and 10. | Know multiplication and division facts for $5 x$ table. | Know multiplication and division facts for 2, 5 and 10x table | Know all number bonds for $£ 1$ using decimal notation | Know the decimal and percentage equivalents of the fractions $1 / 2,1 / 4,3 / 4,1 / 3,2 / 3$, tenths and fifths | Know the square roots of square numbers to $15 \times 15$ |


| COUNTING \& PLACE VALUE | NUMBER BONDS | ADDITION \& SUBTRACTION |
| :---: | :---: | :---: |
| Count the numbers in order up to 5 <br> Count back from 5 to 0 in order <br> Count the numbers in order up to 10 <br> Count back from 10 to 0 in order <br> Count the numbers in order up to 20 <br> Count back from 20 to 0 in order <br> Read numbers to 10 <br> Write numbers to 10 <br> Count numbers to 10 <br> Order numbers to 10 <br> Read numbers to 20 <br> Write numbers to 20 <br> Count numbers to 20 <br> Order numbers to 20 | * Partition numbers to 5 into two groups | * Use physical representations to add and subtract |
| DOUBLING \& HALVING | MULTIPLICATION \& DIVISION FACTS | MEASURES |
|  | * Count in 10s <br> * Count in 2 s | * Know the days of the week in order |


| COUNTING \& PLACE VALUE | NUMBER BONDS | ADDITION \& SUBTRACTION |
| :---: | :---: | :---: |
| * Count to and across 100, forwards and backwards, from any given number <br> Count forwards and backwards in steps of 10 <br> Count forwards and backwards in steps of 2 <br> Count forwards and backwards in steps of 5 <br> Given a number, identify one more and one less <br> Read and write numbers to 20 (numerals and words) | Know all number bonds to 5 <br> Find patterns in number bonds to 5 <br> Know all number bonds to 10 <br> Find patterns in number bonds to 5 <br> Know all addition facts for all numbers between 0 <br> and 10 <br> Know all subtraction facts for all numbers between <br> 0 and 10 <br> Understand missing number calculations | * Add a one digit number to a two-digit number to 20 <br> * Subtract a one digit number from a two-digit number to 20 <br> * Add numbers to 10 <br> * Subtract numbers to 10 <br> * Add numbers to 20 <br> * Subtract numbers to 20 <br> * Add a multiple of 10 to a two digit number (using a 100 square and flip flap) <br> * Subtract a multiple of 10 from a two digit number (using a 100 square and flip flap) <br> * Solve missing number calculations <br> * Understand the effect of adding and subtracting 0 |
| DOUBLING \& HALVING | MULTIPLICATION \& DIVISION FACTS | MEASURES |
| * Know all doubles to 10 <br> * Know all halves to 10 | 黄 x10 | 黄 Know the seasons in order <br> * Know the months of the year in order <br> * Tell the time at o'clock and half past |


| COUNTING \& PLACE VALUE | NUMBER BONDS | ADDITION \& SUBTRACTION |
| :---: | :---: | :---: |
| Count in 10s from any given number, forwards and backwards <br> Count in $2 s$ from any given number, forwards and backwards <br> Understand the value of Tens \& Ones <br> Count in 2 s from 0 forwards and backwards <br> Count in 3s from 0 forwards and backwards <br> Count in 5 s from 0 forwards and backwards <br> Read and write numbers to 100 (numerals and words) | Know all number bonds to 20 <br> Find patterns in number bonds to 20 <br> Link number bonds to 20 to number bonds to 10 <br> Understand the = sign in balancing equations <br> Use and understand < and > signs <br> Understand missing number calculations | Add multiples of 10, including crossing significant boundaries <br> Subtract multiples of 10 , including crossing significant boundaries <br> Know all addition facts for multiples of 10 to 100 <br> Know all subtraction facts for multiples of 10 to 100 |
| DOUBLING \& HALVING | MULTIPLICATION \& DIVISION FACTS | MEASURES |
| 黄 Know the doubles of all numbers to 20 <br> * Know the halves of all numbers to 20 | * H 数 <br> * x 5 <br> * x10 <br> * Children recognise odd and even numbers $\div$ facts for $\times 2$ $\div$ facts for $\times 5$ $\div$ facts for x 10 | Know how many pennies in a $£$ <br> Know the number of minutes in an hour <br> Know the number of hours in a day |


| COUNTING \& PLACE VALUE | NUMBER BONDS | ADDITION \& SUBTRACTION |
| :---: | :---: | :---: |
| Count from 0 in multiples of 100 <br> Count from 0 in multiples of 50 <br> Count from 0 in multiples of 4 <br> Count from 0 in multiples of 8 <br> Count in 4 s from any given number, forwards and backwards <br> Count in 3 s from any given number, forwards and backwards <br> Find 10 more / less than a given number <br> Find 100 more / less than a given number <br> Understand the value of H, T \& Ones <br> Read and write numbers to 1000 (numerals and words) | Understand the $=$ sign in balancing equations <br> Use and understand < and > signs <br> Understand missing number calculations <br> Know all number bonds to 100 <br> Visualise number bonds to 100 on a number line <br> Find patterns within number bonds to 100 | Know all addition and subtraction facts for multiples of 100 to 1000 <br> Know all addition and subtraction facts for multiples of 5 with a total of 100 <br> Know all addition and subtraction facts for number <br> pairs with a total of 100 <br> Add and subtract mentally: <br> - A three-digit number and ones <br> - A three-digit number and tens <br> - A three-digit number and hundreds |
| DOUBLING \& HALVING | MULTIPLICATION \& DIVISION FACTS | MEASURES |
| Know doubles of all multiples of 10 to 500 <br> Know halves of all multiples of 10 to 500 <br> Know doubles of all multiples of 100 to 5000 <br> Know halves of all multiples of 100 to 5000 | 黄 x 4 <br> * H 3 <br> * H 8 <br> * $\div$ facts for $x 4$ <br> * $\div$ facts for x 3 <br> * $\div$ facts for x 8 <br> 黄 x50 <br> * H 100 <br> * Children recognise that multiples of even times tables are all even | Know the number of seconds in a minute <br> Know the number of days in each month, year and leap year <br> Understand am and pm; noon and midnight <br> Recognise right angles |


| COUNTING \& PLACE VALUE | NUMBER BONDS | ADDITION \& SUBTRACTION |
| :---: | :---: | :---: |
| Count from 0 in multiples of 25 and 1000 <br> Count from 0 in multiples of $6,9,7,11$ and 12 <br> Understand the value of Th, H, T \& Ones <br> Find 1000 more / less than a given number <br> * Count backwards through 0 to include negative numbers | Understand the = sign in balancing equations <br> Use and understand < and > signs <br> Understand missing number calculations <br> Recognise and use factor pairs and commutativity in mental calculations <br> Know all pairs of multiples of 50 with a total of 1000 | * Add and subtract pairs of two digit numbers <br> * Add and subtract 9/19/29 etc. to two digit numbers <br> * Add and subtract 11/21/31 etc. to two digit numbers |
| DOUBLING \& HALVING | MULTIPLICATION \& DIVISION FACTS | MEASURES |
| * Know doubles and halves of all whole numbers to 50 <br> Know doubles and halves of all multiples of 5 to 1000 <br> Know doubles and halves of all multiples of 50 to 5000 |  | Read Roman Numerals to 100 <br> * Know the number of weeks in a year <br> * Know: m in km cm in m $90^{\circ}$ in a right angle |


| COUNTING \& PLACE VALUE | NUMBER BONDS | ADDITION \& SUBTRACTION |
| :---: | :---: | :---: |
| 黄 Count forwards and backwards from any given number, in any steps, crossing boundaries and into negative numbers <br> * Count forwards and backwards in steps of powers of 10 for any given number up to 1000000 <br> * Count forwards and backwards through 0 with positive and negative numbers <br> * Understand the value of HTh, TTh, Th, H, T \& Ones | Know all addition and subtraction facts for decimals that total 1 (one DP) <br> Know all addition and subtraction facts for decimals that total 10 (one DP) <br> Find all the factor pairs of a number | * Add and subtract numbers mentally with increasingly large numbers |
| DOUBLING \& HALVING | MULTIPLICATION \& DIVISION FACTS | MEASURES |
| * Know doubles and halves of all whole numbers to <br> 100 <br> * Know doubles and halves of all multiples of 10 to <br> 1000 <br> * Know doubles and halves of all multiples of 100 to 10,000 <br> Know the doubles and halves of all two-digit numbers | * Continue to rehearse all multiplication tables up to $12 \times 12$ and division facts Know and apply tests of divisibility: x2, x3, x5, x9, x10 <br> Recall prime numbers up to 19 <br> Recognise and use square numbers and cube numbers, and the notation for squared ${ }^{2}$ and cubed ${ }^{3}$ | Read Roman Numerals to 1000 <br> Know: <br> mm in cm ml in al g in a kg angles of a triangle angles at a point |


| COUNTING \＆PLACE VALUE | NUMBER BONDS | ADDITION \＆SUBTRACTION |
| :---: | :---: | :---: |
| Count forwards and backwards from any given number，in any steps，crossing boundaries and into negative numbers <br> 带 Know the decimal and percentage equivalents of the fractions $1 / 2,1 / 4,3 / 4,1 / 3,2 / 3$ ，tenths and fifths <br> Calculate mentally using brackets Understand the value of M，HTh，TTh，Th，H，T \＆ Ones | Understand the $=$ sign in balancing equations <br> Use and understand＜and＞signs <br> Know the addition and subtraction facts for two place decimal complements of 1 <br> Find patterns within number bonds to 1 （two DP） Link two decimal place number bonds to 1 ，to number bonds to 100 <br> 带 Know the addition and subtraction facts for three place decimal complements of 1 <br> Find patterns within number bonds to 1 （three DP） Link three decimal place number bonds to 1 ，to number bonds to 100 | Perform mental calculations，including with mixed operations and large numbers |
| DOUBLING \＆HALVING | MULTIPLICATION \＆DIVISION FACTS | MEASURES |
| 带 Know doubles and halves of one digit decimals <br> ＊Know doubles and halves of two digit decimals <br> 带 Know the doubles and halves of all multiples of 10 to 10，000 <br> ＊Know the doubles and halves of all multiples of 1000 to 100,000 | ＊Continue to rehearse all multiplication tables up to $12 \times 12$ and division facts <br> Know and apply tests of divisibility：$x 4, x 6, x 8$ <br> Know all square numbers to $12 \times 12$ <br> Know all square roots to $10 \times 10$ <br> Know the square roots to $15 \times 15$ <br> Know all prime numbers within 50 <br> Know the prime numbers within 100 | Know angles on a straight line <br> Illustrate and name parts of a circle，including radius，diameter and circumference and know that the diameter is twice the radius |

