Mathematics End of Year KPIs

(Key Performance Indicators)

Reception: Mathematics

- Learn and use new vocabulary.
- Count objects, actions and sounds.
- Count beyond 10.
- Subitise (recognise quantities without counting).
- Link the number symbol (numeral) with its cardinal number value.
- Compare numbers.
- Explore the composition of numbers and understand the 'one more than/one less than' relationship between consecutive numbers.
- Automatically recall some number bonds for numbers 0-10.
- Compare length, weight and capacity.
- Select, rotate and manipulate shapes in order to develop spatial reasoning skills.
- Continue, copy and create repeating patterns.
- Find patterns within numbers such as odds and evens.

Year 1: Mathematics

- Count to and across 100, forwards & backwards from any number.
- Read and write numbers to 20 in numerals & words.
- Read and write numbers to 100 in numerals.
- Say 1 more/1 less to 100.
- Count in multiples of 2, 5 & 10.
- Use bonds and subtraction facts to 20.
- Add & subtract; 1 digit & 2 digit numbers to 20, including zero.
- Solve one-step multiplication and division using objects, pictorial representation and arrays.
- Recognise half and quarter of object, shape or quantity.
- Sequence events in chronological order.
- Use language of day, week, month and year.
- Tell time to hour & half past.

Year 2: Mathematics

- Compare and order numbers up to 100 and use < > =.
- Read and write all numbers to 100 in digits & words.
- Say 10 more/less than any number to 100.
- Count in steps of 2, 3 & 5 from zero and in 10s from any number (forwards and backwards).
- Recall and use multiplication & division facts for 2, 5 & 10 tables.
- Recall and use +/- facts to 20.
- Derive and use related facts to 100.
- Recognise place value of any 2-digit number.
- Add & subtract: 2-digit no's & ones, 2-digit no's & tens, Two 2-digit no's, Three 1-digit no's
- Recognise and use inverse (+/-).
- Calculate and write multiplication & division calculations using multiplication tables.
- Recognise, find, name and write 1/3; 1/4; 2/4; 3/4.
- Write and recognise equivalence of simple fractions.
- Tell time to five minutes, including quarter past/to.

Year 3: Mathematics

- Compare & order numbers up to 1000.
- Read & write all numbers to 1000 in digits and words.
- Find 10 or 100 more/less than a given number.
- Count from 0 in multiples of 4, 8, 50 and 100.
- Recall & use multiplication & division facts for 3, 4, 8 tables.
- Recognise place value of any 3-digit number.
- Add and subtract: 3-digit no's and ones, 3-digit no's and tens, 3-digit no's and hundreds
- Add and subtract numbers with up to 3-digits using written columnar method.
- Estimate and use inverse to check.
- Multiply 2-digit by 1-digit.
- Count up/down in tenths.
- Compare and order fractions with same denominator.
- Add and subtract fractions with same denominator with whole.
- Tell time using 12 and 24 hour clocks; and using Roman numerals.
- Tell time to nearest minute.
- Know number of days in each month and number of seconds in a minute.

Year 4: Mathematics

- Count backwards through zero to include negative numbers.
- Compare and order numbers beyond 1,000.
- Compare and order numbers with up to 2 decimal places.
- Read Roman numerals to 100.
- Find 1,000 more/less than a given number.
- Count in multiples of 6, 7, 9, 25 and 1000.
- Recall and use multiplication and division facts all tables to 12x12.
- Recognise place value of any 4-digit number.
- Round any number to the nearest 10, 100 or 1,000.
- Round decimals with 1dp to nearest whole number.
- Add and subtract: Numbers with up to 4-digits using written columnar method.
- Multiply: 2-digit by 1-digit, 3-digit by 1-digit
- Count up/down in hundredths.
- Recognise and write equivalent fractions
- Add and subtract fractions with same denominator.
- Read, write and convert time between analogue and digital 12 and 24 hour clocks.

Year 5: Mathematics

- Count forwards and backward with positive and negative numbers through zero.
- Count forwards/backwards in steps of powers of 10 for any given number up to 1,000,000.
- Compare and order numbers up to 1,000,000.
- Compare and order numbers with 3 decimal places.
- Read Roman numerals to 1,000.
- Identify all multiples and factors, including finding all factor pairs.
- Use known tables to derive other number facts.
- Recall prime numbers up to 19.
- Recognise and use square numbers and cube numbers.
- Recognise place value of any number up to 1,000,000.
- Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 or 100,000.
- Round decimals with 2 decimal places to nearest whole number and 1 decimal place.
- Add and subtract: Numbers with more than 4-digits using formal written method.
- Use rounding to check answers.
- Multiply: 4-digits by 1-digit/ 2-digit
- Divide: Up to 4-digits by 1-digit
- Multiply & divide: Whole numbers & decimals by 10, 100 and 1,000
- Recognise and use thousandths.
- Recognise mixed numbers and improper fractions and convert from one to another.
- Multiply proper fractions and mixed numbers by whole numbers.
- Identify and write equivalent fractions.
- Solve time problems using timetables and converting between different units of time.

Year 6: Mathematics

- Use negative numbers in context and calculate intervals across zero.
- Compare and order numbers up to 10,000,000.
- Identify common factors, common multiples and prime numbers.
- Round any whole number to a required degree of accuracy.
- Identify the value of each digit to 3 decimal places.
- Use knowledge of order of operations to carry out calculations involving four operations.
- Multiply: 4-digit by 2-digit
- Divide: 4-digit by 2-digit
- Add and subtract fractions with different denominators and mixed numbers.
- Multiply simple pairs of proper fractions, writing the answer in the simplest form.
- Divide proper fractions by whole numbers.
- Calculate % of whole number.

"Where every child has the chance to shine"