Nelson Infant School – Mathematics Medium Term Planning – Year 1 Autumn Term

Teaching will ensure that all pupils

- **Become fluent** in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- **Reason mathematically** by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language.
- Can **solve problems** by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Number Sense	
Number: Number & Place Value	**Measurement**
Count to and across 20, forwards and backwards, beginning with 0 or 1, or any given number. Read and write numbers from 1-20 in numerals. Identify and represent numbers using objects and pictorial representations. Use language 'equal to', 'more than', 'less than' (fewer), 'most', 'least'. *Compare and order numbers 1-20.* *Use knowledge of place value to position numbers 1-20 on a number line.* *Recognise place value of each digit in the 'teens' numbers, e.g. '10 and x ones'.* Given a number from 1-20, identify 1 more and 1 less.	Recognise and know value of different denominations of coins and notes. Measure and begin to record mass/weight. Compare, describe and solve practical problems for mass and weight, e.g. heavy/light, heavier than/lighter than. Sequence events in chronological order using appropriate language, e.g. before and after, next, first, today, tomorrow, yesterday, morning, afternoon, evening. Recognise and use language relating to dates, including days of the week, weeks, months and years.

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Additive Reasoning	
Number: Number & Place Value	**Number: Addition & Subtraction**
Count to and across 20, forwards and backwards, beginning with 0 or 1, or any given number. Read and write numbers from 1-20 in numerals. Identify and represent numbers using objects and pictorial representations. Use language 'equal to', 'more than', 'less than' (fewer), 'most', 'least'. *Compare and order numbers 1-20.* *Use knowledge of place value to position numbers 1-20 on a number line.* *Recognise place value of each digit in the 'teens' numbers, e.g. '10 and x ones'.* Given a number from 1-20, identify 1 more and 1 less.	Introduce +, -, = symbols and their actions. Read, write and interpret mathematical statements involving +, -, =. Solve one step problems involving addition and subtraction using concrete objects and pictorial representations. Understand addition as combining groups of objects and as counting on. Understand subtraction as 'taking away'/counting back. Learn and begin to use a range of mental calculation strategies including reordering numbers in a calculation and using patterns of similar calculations. Add and subtract numbers to 10 including 0, e.g. U+U=?; U-U=?. Add 10 to any single digit number. Subtract 10 from any 2 digit number to 20. Derive, represent and use number bonds and related subtraction facts within 10.

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Multiplicative Reasoning	
Number: Number & Place Value	**Number: Multiplication & Division**
Count to and across 20, forwards and backwards, beginning with 0 or 1, or any given number. Read and write numbers from 1-20 in numerals. Identify and represent numbers using objects and pictorial representations. Use language 'equal to', 'more than', 'less than' (fewer), 'most', 'least'. *Compare and order numbers 1-20.* *Use knowledge of place value to position numbers 1-20 on a number line.* *Recognise place value of each digit in the 'teens' numbers, e.g. '10 and x ones'.* Given a number from 1-20, identify 1 more and 1 less.	Derive, represent and use addition doubles of numbers to at least 5.

Geometric Reasoning	
Geometry: Properties of Shape	**Number: Fractions**
Use numbers and shapes to create and describe simple patterns and sequences. Recognise, name and describe the properties of common regular and irregular 2D shapes, including circle, triangle, square, oblong, rectangle, pentagon, and hexagon.	Recognise, find and name half as one of two equal parts of an object or shape.

Measurement: Recognise and use language relating to dates, including days of the week, weeks, months and years.
Each class to cover this objective during daily class routines, e.g. calendars, birthdays.
Statistics: Sort objects, numbers and shapes in different ways, e.g. lists, tables.
Ask and answer questions about information shown in lists and tables.
Each class to cover these objectives during cross-curricular theme activities.