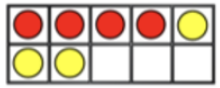
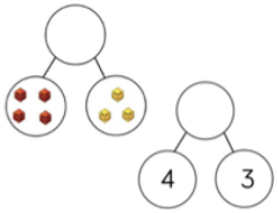
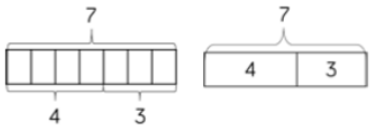
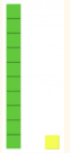
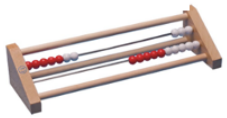
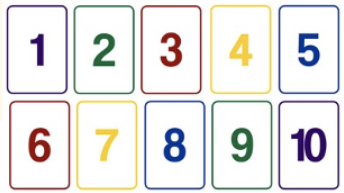
Maths in Group 2 at International School Haarlem

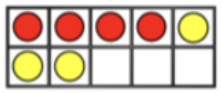
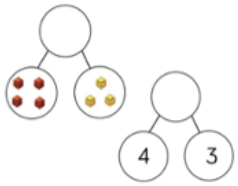
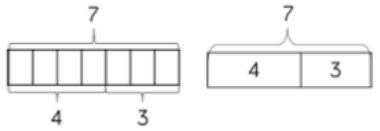
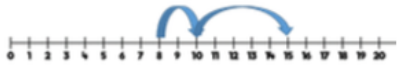
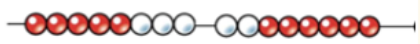
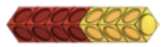
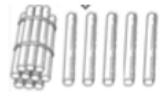
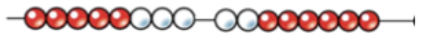
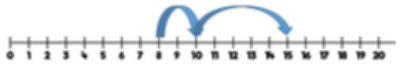
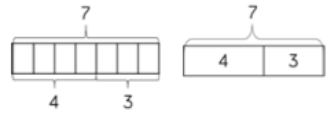
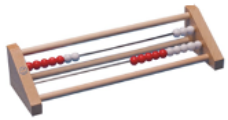
At International School Haarlem we aim to provide children with consistent and secure mathematical language, representations, and methods as they move up through the groups. These progress alongside their mathematical understanding and in combination with a range of concrete resources.

This document shows the National Curriculum goals alongside the mathematical language, representations, and methods the children are expected to have covered by *the end* of Group 2. In addition, it shows the concrete materials the children will use to support their learning and comprehension.

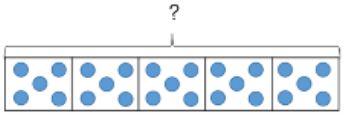
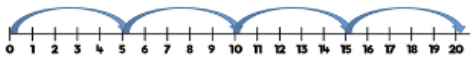
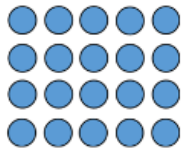
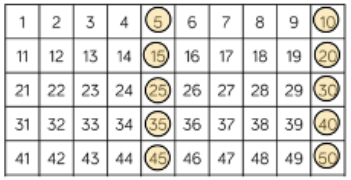
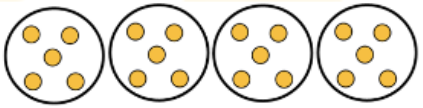
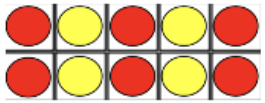
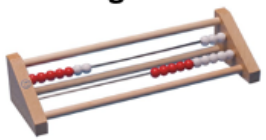
Place Value

National Curriculum Goals	Key Vocabulary	Representations	Concrete Resources
Group 2 • count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number • count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens • given a number, identify one more and one less • identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least • read and write numbers from 1 to 20 in numerals and words	Group 2 *Zero* *Ones* *Tens* *Partition* *-teen number* *-ty number* *Compare* *Equal to / the same as (=)* *Smaller / fewer / less / is less than (<)* *Smallest / fewest / least* *More / bigger/ larger / greater / greater than (>)* *Most / biggest / largest /greatest* *Before / 1 less* *After / 1 more* *Jump forwards* *Jump backwards* *Skip counting / counting by* *Number* *Number in words* *Digit* *Symbol* *Represent* *How many?*	Group 2 **Ten frames**  **Part-whole model**  **Bar model**  **Bead strings** **Place value chart** **Place value cards** 	Group 2 **Snapcubes** **Counters** **Numicon** **Straws** **Bead strings** **Number lines (labelled)** **Base ten**  **Counting rack**  **Flashcards with numbers** 

Addition & Subtraction

National Curriculum Goals	Key Vocabulary	Calculation Methods / Representations	Concrete Resources
Group 2 • read, write, and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs • represent and use number bonds and related subtraction facts within 20 • add and subtract one-digit and two-digit numbers to 20, including zero • solve one-step problems that involve addition and subtraction, using concrete objects, pictorial representations, and missing number problems, such as 7 = ☐ - 9	Group 2 *Add / Total / Plus / Together / Altogether* *Take away / Minus / Less* *Is / Equals* *Compare* *# more / counting on / how many more?* *# less / counting back / how many less?* *Number sentence / Number problem* *Digit* *Fact family* *Number bond* *Missing number*	Group 2 **Ten frames**  **Part-whole model**  **Bar model**  **Number line**  **Bead strings**  **Hundred square** 	Group 2 **Cubes**  **Counters** **Numicon** **Straws**  **Bead strings**  **Number lines (labelled)**  **Bar model**  **Base ten** **Counting rack** 

Multiplication & Division

National Curriculum Goals	Key Vocabulary	Calculation Methods / Representations	Concrete Resources
Group 2 • solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.	Group 2 *Doubling* *Halving* *Multiplication* *Multiply* *Multiplied by / times* *Multiple* *Array(s) – Row and Column* *Division* *Dividing* *Grouping / equal groups of* *Sharing* *Number sentence / Number problem* *Fact family*	Group 2 **Bar model**  **Number line**  **Bead strings** **Arrays**  5 + 5 + 5 + 5 = 20 4 × 5 = 20 5 × 4 = 20 **Hundred square**  **Groups** 	Group 2 **Snapubes** **Counters**  **Numicon** **Bead strings** **Counting rack**  **Sorting circles**

Fractions

National Curriculum Goals	Key Vocabulary	Representations	Concrete Resources
Group 2 • recognise, find, and name a half as one of two equal parts of an object, shape, or quantity • recognise, find, and name a quarter as one of four equal parts of an object, shape, or quantity	Group 2 *Whole* *Fraction* *Half* *Quarter* *Parts* *Split* *Equal / Equally* *Non-equal* *Shaded* *Amount* *Groups* *Share*	Group 2 **Shapes** **Bar model** **Groups** 	Group 2 **Paper shapes** **Snapcubes** **Counters** **Hoops**