Granby Primary School

Maths Curriculum Map

NPV: Number & place value **AS:** Addition & subtraction **MD:** Multiplication & division **F:** Fractions **RP:** Ration & proportion **A:** Algebra **G:** Geometry **M:** Measurement **S:** Statistics

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	**NPV:** Place value within 10 **AS:** Addition within 10 **G:** Identify 3D shapes **AS:** Subtraction within 10	**NPV:** Number bonds within 10 **M:** Money – recognising coins **NPV:** Place value within 20 **M:** Time - o'clock; days of the week	**AS:** Addition and subtraction within 20 **M:** Length & height using non-standard units of measure **MD:** Counting in 2s **NPV:** Odd & even numbers	**NPV:** Place value within 50 **M:** Volume and mass **AS:** Missing number problems; find the difference **M:** Time – o'clock revision; months	**MD:** Multiply and divide in 2s, 5s & 10s **F:** Find ½ & ¼ of shapes and amounts	**NPV:** PV within 100 **G:** Identify 2D Shapes & their properties **NPV:** Ordinal numbers **AS:** + & - revision inc money **M:** Length & mass - **s**tandard units of measurement
Year 2	**NPV:** Counting and place value within 100 **AS:** Addition by making 10; - across 10 **G:** Recognise and describe properties of 2D shapes; identify 3D shapes **NPV:** Number bonds within 20 **M:** Money – making totals	**MD:** Practical multiplication & division for 2, 3, 5 & 10 times tables **F:** Unit fractions of shapes and amounts **AS:** Addition two 2-digit numbers - practical **M:** Time – revise o'clock & half past; Length - measure in cms	**NPV:** Place value within 100 consolidation; number bonds for 20 and 100 **M:** Time – quarter past & 5 min intervals past the hour **MD:** Multiplication for 2, 3, 5 & 10 timetables using jottings **AS:** Addition & subtraction of two 2-digit numbers using jottings **MD:** Division using jottings	**AS:** Subtraction of two 2-digit numbers using jottings **G:** Shape – symmetry in 2D shapes; properties of 3D shapes **F:** Find non-unit fractions of shapes and amounts **M:** Time – quarter to & 5 min intervals to the hour **S:** Make & interpret simple pictograms & bar charts	**AS:** Addition & subtraction revision inc money **MD:** Multiplication and division revision **F:** Revision **M:** Mass & Volume using standard units of measurement **M:** Money – making amounts in different ways & reasoning with money	**G:** Sort & compare 2D & 3D shapes **NPV:** Place value consolidation and into 3-digits **F:** Unit and non-unit fractions **G:** Identify right angles; patterns with 2D and 3D shapes **M:** Mass & Volume using standard units of measurement
Year 3	**AS:** Mental addition & subtraction of 2-digit numbers **MD:** Multiplication & division for 2, 3, 4, 5 & 10 times tables; doubling & halving **M:** Time – 5 min intervals **G:** Sorting 3D shapes **NPV:** Place 2 & 3-digit numbers on a number line to find differences	**MD:** Doubling & halving numbers up to 100 **F:** Unit fractions of amounts **AS:** Addition & subtraction inc money; revise adding two & adding three 2-digit numbers **M:** measure length in cm/measure capacity in ml **NPV:** Place 2 & 3-digit numbers on a number line; round 3-digit numbers to nearest 100 **AS:** Count up to find the difference	**NPV:** Place value of 3-digit numbers inc. ordering & comparing **AS:** Addition two 2-digit numbers using partitioning; adding two 3-digit numbers using partitioning **MD:** Recognise and sort multiples of 2, 3, 4, 5 and 10 times tables; double 4 times table to find multiples of 8 **F:** Unit fractions inc 1/6 and 1/8; finding equivalent fractions; place fractions on a 0 to 1 number line	**AS:** Partition 3-digit numbers; written methods to add two 3-digit numbers; add two 2-digit & 2-digit & 3-digit numbers mentally; investigate patterns in numbers when adding **M:** Time – to nearest min on analogue and digital clocks; events in mins and secs; calculate time intervals; word problems involving time **AS:** Subtract 3-digit numbers by counting up.	**AS:** Addition & subtraction of single digits and multiples of 10 from 3-digit numbers mentally **MD:** Grid method multiplication; division by chunking; Using times table facts to solve scaling problems **S:** Draw and interpret pictograms and bar charts with different scales; analysing data **AS:** Revise mental and written methods for addition & subtraction	**AS:** Revise mental and written methods for addition & subtraction **G:** Develop and use vocabulary of shape & angle **M:** Time - tell the time on analogue & digital clocks; tell the time 5, 10, 20 mins later **MD:** Understand relationship between multiplication & division, & fractions **AS; MS:** Revision of key calculation strategies

		AS; MS: Revision of key calculation strategies	**G:** Right angles; properties of 2D shapes; find perimeter of 2D shapes; ¼ & ½ turns in relation to right angles			
Year 4	**NPV:** Estimate and rounding 4-digit numbers **AS:** Add two 4-digit numbers; subtract two 4-digit numbers **M:** Time – tell the time; calculation time intervals; Length - measuring length in m, cm & mm, converting lengths between units	**MD:** Multiply and divide by 6, 7, 9, 11 & 12; multiply 3 numbers **F:** Unit/non-unit fractions Finding tenths, counting in tenths; equivalent fractions; converting fractions to decimals; proper fractions; finding non-unit fractions of amounts; equivalent fractions; simplifying fractions **S:** Measure & read scales; collect, interpret & record data	**M:** Area of rectilinear shapes; comparing area of rectilinear shapes; km & m conversion; perimeter of shapes; finding missing lengths; perimeter of polygons **F:** Revise fractions and equivalent fractions; fractions >1; count in fractions; add fractions; subtract fractions; fractions of amounts	**F:** Tenths as fractions **NPV:** Decimals on a PV grid and a number line **MD:** Divide single and 2-digit numbers by 10 **F/NPV:** Hundredths as fractions and as decimals; hundredths on a PV grid **MD:** Divide single and 2-digit numbers by 100; factor pairs; multiply & divide by 10 and 100; informal written methods of multiplication; multiplying 2- & 3-digit numbers by single digits	**NPV:** Consolidate place value in 4-/5-digit numbers extending to decimals. **MD:** Multiply and divide by 10/100/1000 inc. decimals. **NPV:** Mark decimals on a number line; round decimals to nearest whole number **MD; M:** Develop mental multiplication strategies; use written methods for x 3-digit numbers by single digits inc money; rounding to estimate answers **NPV:** Roman numerals to 100; history of number system; **G:** Shape consolidation **F:** Equivalent fractions revision	**AS:** + & - 2, 3 & 4 digit numbers mentally **MD:** Derive factors of 2-digit numbers and use to solve x mentally **AS:** Written methods for 4-digit numbers and money; solve word problems using efficient method **G:** Use coordinates to draw polygons; translating shapes **S:** Draw and interpret bar charts & pictograms; draw line graphs **MD:** Written methods for x 3-digits by single digits **F:** Non-unit fractions of amounts; adding fractions including totals >1 **MD:** Looking for patterns and writing rules; grid method
Year 5	**NPV:** Read, write & compare 5-digit numbers **AS:** Add and subtract 10, 100 & 1000 to/from 5-digit numbers; written methods for adding two 4-digit numbers; add & subtract 2-, 3- & 4-digit numbers mentally; solve word problems **NPV:** Place value of decimal numbers **MD:** Multiply & divide decimals; multiply and divide using doubling or	**MD:** Identify multiples and factors **F:** Compare & order fractions; find equivalent fractions & reduce to simplest form **MD:** Mental addition; written methods to multiply 3-/4-digit numbers by single digits; divide 3-digit numbers by single digits; division word problems **G:** Measure & classify angles; identify & name	**NPV:** Read, write & order 6-digit numbers inc decimals **AS:** Add and subtract 6-digit numbers; mental addition strategies for decimals, whole numbers & whole numbers **MD:** identify prime numbers, squares & square roots; mental multiplication strategies **G:** Properties of triangles; sort triangles using properties	**MD:** Written grid method to multiply two 2-digit numbers; short division to divide 3-digit numbers by single digits inc remainders; use short multiplication to multiply 3-digit numbers by single digits; begin to multiply 4-digits by single digits **G:** Identify & draw polygons; recognise angles in relation to quadrilaterals	**AS:** Add & subtract numbers in context of money & contextual problems **F; M:** Multiply & convert fractions; short and long division of whole numbers **NPV:** Place value in decimals inc multiplying & dividing by 10 & 100 **G:** Plotting, reflecting & translating shapes on coordinating grids; extend understanding of	**MD; F:** Short division inc remainders; express remainder as a fraction; long multiplication to multiply 3-/4-digit numbers by teens numbers **M:** Area, perimeter & volume; understanding difference between measurement in one, two and three dimensions **F; NPV:** Understanding percentages & how they relate to fractions & decimals; solve problems

	halving; using mental strategies **M:** Time – calculating time intervals; measuring in cm/mm inc perimeters **AS:** Formal written subtraction	parts of a circle; relate angles to turns **NPV:** Oder numbers to 100,00 inc decimals; **F:** Reduce fractions to simplest form; know & recognise equivalent fractions & decimals **AS:** Revise mental addition & subtraction strategies	**M:** Reading scales; conversion problems **AS; M:** Column addition to add amounts of money; subtract decimals by counting up	**M:** Revise metric roots of measurement and relate imperial units to daily life **F:** Revise proper fractions, equivalent fractions, mixed numbers & improper fractions; multiply proper fractions by whole numbers **AS:** Colum addition and subtraction of 4-digit numbers	properties of 2D & 3D shapes **AS:** Written methods of addition & subtraction; choosing efficient strategies to solve problems	by finding percentages of amounts **Revision**
Year 6	**NPV; AS:** Place value in whole numbers and decimals; written methods and mental strategies in addition **A:** Introduce algebra; knowledge of the order of operations inc brackets; manipulate sentences inc unknowns **M:** Convert units of measurement; time – 24hr clock; calculation of time intervals **AS:** Revise mental & written methods of subtraction inc decimals & money **MD:** Revise mental & written methods of multiplication	**NPV; F:** Positive & negative numbers; comparing, ordering, adding & subtracting fractions inc mixed numbers **G; M:** Properties, areas, perimeters of 2D shapes; Nets, volumes & properties of 3D shapes **MD:** Revise mental strategies & short division giving remainders of fractions; revise addition, subtraction, multiplication and division of fractions	**PV; S:** Place value in large numbers; subtracting 7-digit numbers using column methods **MD; F:** Decimals & proper fractions & their equivalences; revise multiplication methods **G:** 2D shapes particularly quadrilaterals, their diagonals & interior angles; circles with relevant terminology **AS:** Revise addition & subtraction inc solving word problems **MD:** Number patterns involving factors and multiples; long division	**AS:** Addition & subtraction problems involving money & decimals **S:** Data representation & manipulation inc line graphs, pie charts; calculation of averages **G:** Position on a 4-quadrant coordinate grid, with polygons being plotted, translated and reflected; angle theorems **MD:** Long & short written algorithms in multiplying & dividing large numbers **A; RP:** Use of generalisations & simple formula, inc finding the nth term in a sequence; ratio	**NPV:** Revise place value in large numbers and in decimals fractions **AS:** Revise mental and written addition & subtraction strategies **F:** Find percentages **AS; MD:** Order of operations **A:** Finding unknowns in equations **MD:** Revising multiplication & division strategies	**Revision:** Fractions; ratio **Revision:** Geometry **Further mathematical ideas:** exploration of a variety of interesting mathematical concepts & processes inc binary numbers & Napier's bones