St John of Jerusalem
Church of England Primary School

NUMERACY YEAR PLANS

2014-15

Year Group	**Autumn 1** **8 weeks**	**Autumn 2** **7 weeks**	**Spring 1** **6 weeks**	**Spring 2** **5 weeks**	**Summer 1** **6 weeks**	**Summer 2** **7 ½ weeks**
NURSERY	*Begins to make comparisons between quantities.* *Recites some number names in sequence.* *Knows that a group of things changes in quantity when something is added or taken away.*	*Uses some language of quantities, such as'more'and'a lot'.* *Selects a small number of objects from a group when asked, for example, 'please give me one', 'please give me two'.* *Creates and experiments with symbols and marks representing ideas of number.* *Responds to vocabulary involved in addition in rhymes and games.* *Responds to vocabulary involved in subtraction in rhymes and games.*	*Uses more/most and less/least.* *Uses the language of more in and fewer (less) to compare sets of objects.* *Realises not only objects, but anything can be counted, including steps, claps or jumps.* *Shows an interest in numerals in the environment.* *Compares two groups of objects, saying when they have the same number.* *Uses some number names accurately in play.* *Shows curiosity about numbers by offering comments or asking questions.*	*Separates a group of three or four objects in different ways, beginning to recognise that the total is still the same.* *Sometimes matches numeral and quantity correctly.* *Recites numbers in order to 10.* *Can touch an item when counting.* *Knows that numbers identify how many objects are in a set.* *Recognise some numerals of personal significance.* *Says the number that is one more than a given number.* *Can differentiate between numbers and letters.*	*Counts up to three or four objects by saying one number name for each item.* *Counts out up to six objects from a larger group.* *Shows an interest in representing numbers.* *Beginning to represent numbers using fingers, marks on paper or pictures.*	*Counts out up to six objects from a larger group.* *In practical activities and discussion, beginning to use the vocabulary involved in adding and subtracting.* *Finds the total number of items in two groups by counting all of them.* *Finds the total number of items after some are taken away by counting all of them.* *Shows an interest in number problems.*

St John of Jerusalem
Church of England Primary School

NUMERACY YEAR PLANS

2014-15

RECEPTION	*Beginning to categorise objects according to properties such as size.* *Beginning to categorise objects according to properties such as shape.*	*Shows interest in shapes in the environment.* *Shows an interest in shape and space by playing with shapes.*	*Notices simple shapes and patterns in pictures.* *Begins to use the language of size.* *Understands some talk about immediate past and future, e.g. 'before', 'later' or 'soon'.*	*Uses money in role play.* *Uses shapes appropriately for tasks.* *Exchanges money for objects.*	*Anticipates specific time-based events such as mealtimes or home time.* *Understands some talk about immediate past and future, e.g. 'before', 'later' or 'soon'.* *Beginning to use mathematical names and 'flat' 2D shapes.* *Uses familiar objects and common shapes to create and recreate patterns and build models.*	*Shows an interest in shape and space by making arrangements with objects.* *Beginning to talk about the shapes of everyday objects, e.g. 'round' and 'tall'.* *Shows interest in shape by sustained construction activity.* *Shows awareness of similarities of shapes in the environment.* *Shows interest in shape by talking about shapes or arrangements.* Know and name different coins. Use coins to make small totals.

St John of Jerusalem
Church of England Primary School

NUMERACY YEAR PLANS

2014-15

YEAR 1	Numbers to 10. Addition with 10 - (Incl.Word problems) Subtraction within 10 - (incl. Word problems) Ordinal numbers. Length. 2D – Shape.	Numbers to 20. Addition within 20 (Incl. Word Problems) Subtraction within 10 – (incl. Word Problems) Number Bonds Mass – mass units. Data Handling.	Numbers to 40. Place Value. Addition within 40. Subtraction within 40. Position,Direction, Motion. Time.	Numbers to 100. Addition within 100. Subtraction within 100. Multiplication. 3D Shape. Money.	Numbers to 100. Division. Money. Length. Fractions. Volume.	Numbers to 100. Addition to 100 - Review Subtraction to 100 - Review Multiplication review Division review Fractions review.
YEAR 2	**Target Setting** **Place value** **Length and Mass/weight** **Addition and subtraction** **2-D and 3-D shape**	**Counting, multiplication and sorting** **Statistics** **Fractions** **Capacity and volume** **Money** **Time** **Assessment**	**Number and Place value** **Mass/weight** **2-D and 3-D Shape** **Counting and money** **Multiplication** **Division**	**Length and Mass/weight** **Addition and subtraction Fractions** **Position and direction** **Time** **Assessment**	**Number and Place value and statistics** **Addition and subtraction** **Capacity and volume and temperature** **Fractions** **Position and direction** **Time** **2-D and 3-D shape**	**Time** **Multiplication and division** **Statistics including finding the difference** **Measurement** **Sorting** **End of Year Assessment**

St John of Jerusalem
Church of England Primary School

NUMERACY YEAR PLANS

2014-15

YEAR 3	**Number/Calculation** Learn 3, 4 & 8x tables Secure place value to 100 Mentally add & subtract units, tens or hundreds to numbers of up to 3 digits **Geometry & Measures** Use Roman numerals up to XII; **Handling Data:** collect, organise and interpret data; use tally charts, frequency tables, pictograms and bar charts to represent results	**Number/Calculation** Solve number problems, including multiplication & simple division and missing number problems Multiply one-digit and two-digit numbers by 10 or 100, and describe the effect **Fractions & decimals** Use & count in tenths Recognise, find & write fractions **Geometry & Measures** Draw 2-d / Make 3-d shapes	**Number/Calculation** Use commutativity to help calculations **Geometry & Measures** Measure & calculate with metric measures Measure simple perimeter **Fractions & decimals** Recognise some equivalent fractions Order fractions with common denominator	**Number/Calculation** Use practical and informal written methods to multiply and divide two-digit numbers, round remainders up or down, depending on the context Understand that division is the inverse of multiplication and vice versa **Geometry & Measures** Add/subtract using money in context	**Number/Calculation** Describe and explain methods, choices and solutions to puzzles and problems, orally and in written calculation, using pictures and diagrams **Geometry & Measures** Read the time on a 12-hour digital and to the nearest 5 minutes on an analogue clock Calculate time intervals and find start or end times for a given time interval.	**Number/Calculation** Solve one-step and two-step problems involving numbers, money or measures, including time, choosing and carrying out appropriate calculations **Geometry & Measures** Identify horizontal, vertical, perpendicular and parallel lines Identify and use right angles **Fractions & decimals** Order fractions with common denominator

St John of Jerusalem
Church of England Primary School

NUMERACY YEAR PLANS

2014-15

YEAR 4	Read, write and put in order four-digit numbers and positive and negative numbers add and subtract two-digit numbers in my head. Work out sums and differences of multiples of 100 or 1000. Multiply and divide by 10 and 100. double two-digit numbers use the < and > signs with positive and negative numbers. Use Roman numerals to 100 (C)	use mental addition and subtraction to help me solve problems Find area by counting squares work out division facts round numbers in a calculation to help me estimate the answer to the calculation measure lengths, weights, and times Use standard short multiplication identify symmetry Recognise tenths & hundredths	Know tables 6x 7 know about polygons to group them into regular and irregular polygons Estimate & calculate measures Use bar charts, pictograms & line graphs Use first quadrant coordinates Multiply & divide mentally Introduce decimals Solve money problems read the scale on a measuring cylinder or measuring jug	Add & subtract fractions with common denominators Recognise common equivalents Multiply decimals by 10,100,100 Round decimals to whole numbers Compare 2-d shapes, including quadrilaterals & triangles Identify symmetry	Know tables 6,7,8 doubling and halving are inverse operations solve problems with one or two steps solve problems about shapes using mathematical vocabulary Use bar charts, pictograms & line graphs Introduce simple translations Identify acute, obtuse & right angles	fraction know that 1/2 can also be written as 0.5, 1/4 as 0.25 and 3/4 as 0.75 of an amount multiplication facts up to 10 × 10 use a written method to multiply a two-digit number by a one-digit number area of shapes

St John of Jerusalem
Church of England Primary School

NUMERACY YEAR PLANS

2014-15

YEAR 5	Place value Place value (decimals) Written + and – including problems Geometry (angles) Addition and subtraction (statistics)	Mental x and ÷ (factors, multiples) Division including problems Fractions (compare, order, equivalence) Multiplication and measures (area) Statistics and measures (time) Termly Assessment.	Place value Roman numerals counting incl. negative numbers Addition and subtraction including problems Mental and written multiplication Measures (length, mass and capacity)	Target setting. Mental and written division 2D and 3D shape incl. sorting Calculating with fractions Measures (area and volume) Termly Assessment.	Place value Fractions Measures (time) and statistics Geometry Addition and subtraction Multiplication and division	. Place value Written calculations Fractions Measures (mass, volume and capacity) Area and volume of shapes Termly Assessment.

St John of Jerusalem
Church of England Primary School

NUMERACY YEAR PLANS

2014-15

YEAR 6	Place Value – Whole Numbers/decimal numbers using all four operation. Write numbers in figures and words up to **10 million.** Comparing and rounding numbers to the nearest whole number and up to 3 decimal places. Addtion/subtraction of positive and negative numbers using abstract & concrete skills. Multiplying and dividing whole /decimal numbers . Solve multi-step word problems. Assessment.	Fractions Pupils identify equivalent fractions. Compare and simplify fractions. Add and multiply mixed numbers. Divide fractions by whole numbers. adding/multiplying Finding fractions of whole numbers. Eg, 2/5 of 150. Percentages of whole numbers. Solving word problems relating to fractions and percetages. Ratio – Proportion. Pupils link this to fractions and solve word problems. Algebra – using letters as numbers and simplifying Assessment	Geometry, Measures & Conversion. Confidently use a rangeof measures & conversions. Calculate area of triangles / parallelograms. Use area & volume formulas. Classify shapes by properties. Know and use angle rules. Translate & reflect shapes, using all four quadrants. Data Use pie charts, bar line charts bar charts. Calculate Mean, average, median and mode.	Coordinates Link to data handling Use testbase to analyse questions. Negative numbers Link to coordinates and place value revision. Angles –measuring, estimating. Revision of all 4 operations. Assessment	Measures – conversion. Properties of 3D shapes. Identify 3D shapes nets. Review mental methods for all 4 operations. Review compensation for addition and subtraction. Review partitioning/rounding. Review written methods for all 4 operations.	Place Value of whole /decimal numbers. Review of the number system and Cross link with Topic mini enterprise and computing project of creation of an app – costings, potential profit and loss.