

YEAR 3/4 SPRING TERM	NC OBJECTIVES	SEQUENCE OF LEARNING	KNOWLEDGE ORGANISER – facts and vocabulary
	1 week – Growth Mindset	Week of lessons from Jo Boaler’s Youcubed website.	
	4 weeks - Number: Multiplication and division <ul style="list-style-type: none"> recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables up to 12×12 write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods recall multiplication and division facts for multiplication tables up to 12×12 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers recognise and use factor pairs and commutativity in mental calculations multiply two-digit and three-digit numbers by a one-digit number using formal written layout solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects 	<ol style="list-style-type: none"> Multiplying by 10 and 100. Dividing by 10 and 100. Multiply by 1 and 0 Divide by 1 Factor pairs Multiplying 2/3-digit numbers by 1 digit (Y4 written methods) Dividing 2/3-digit numbers by 1 digit Scaling problems Correspondence problems 	<p>Times tables facts (and corresponding divisions)</p> <p>Answer, array, associative, calculation, communicative, divide, double, equation, fact, factor, group, halve, integer, inverse, multiple, multiply, pattern, prime, product, remainder, sentence, share, symbol, times</p>
	2 weeks – Measurement <ul style="list-style-type: none"> measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) convert between different units of measure [for example, kilometre to metre; hour to minute] measure the perimeter of simple 2-D shapes measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares 	<ul style="list-style-type: none"> Measuring length accurately Equivalent lengths – mm, cm, m and km Ordering lengths Problems involving adding and subtracting length Measuring and calculating perimeter of rectangles and rectilinear shapes Measuring and calculating area 	<p>10mm = 1 cm, 100cm = 1m, 1000m = 1km</p> <p>Accurate, area, centimetre, compound shape, distance, kilometre, length, measure, metre, metric, mile, millimetre, perimeter, rectangle, rectilinear, ruler</p>
	4 weeks – Fractions and decimals <ul style="list-style-type: none"> count up and down in tenths/hundredths; recognise that tenths/hundredths arise from dividing an object into 10/100 equal parts and in dividing one-digit numbers or quantities by 10/100 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators recognise and show, using diagrams, equivalent fractions with small denominators recognise and show, using diagrams, families of common equivalent fractions add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] compare and order unit fractions, and fractions with the same denominators recognise and write decimal equivalents of any number of tenths or hundreds recognise and write decimal equivalents find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths round decimals with 1 decimal place to the nearest whole number compare numbers with the same number of decimal places up to 2 decimal places solve simple measure and money problems involving fractions and decimals to 2 decimal places 	<ol style="list-style-type: none"> Recognising fractions – non-unit and unit fractions Making a whole and fractions greater than 1 Placing fractions on a number line – counting in fractions Equivalent fractions Compare and order fractions Fractions of amounts and quantities Adding and subtracting fractions Count in tenths as fractions and decimals Count in hundredths as fractions and decimals Divide 1 and 2-digit numbers by 10 and 100 	<p>Writing fractions</p> <p>Decimal, denominator, divide, equivalent, fraction, half, hundredths, numerator, non-unit, part, quantity, tenths, unit,</p>