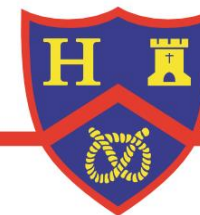


Spring Term Objectives – Y1

Place value (within 20)	Times table/mental maths focus:
<ul style="list-style-type: none"> • read and write numbers from 1 to 20 in numerals and words • count to and across 50, forwards and backwards, beginning with 0 or 1, or from any given number • count, read and write numbers to 50 in numerals • count in multiples of 2s • given a number, identify 1 more and 1 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 	<ul style="list-style-type: none"> • Review: number bonds to 10 • New: number bonds to 20 • Begin to count in multiples of 2 • Doubles and halves to 20 <hr/> <p>Addition and subtraction (within 20)</p> <ul style="list-style-type: none"> • 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 0 • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $= ? - 9$
Measurement - Length and height	Measurement - Mass and volume
<ul style="list-style-type: none"> • compare, describe and solve practical problems for: <ul style="list-style-type: none"> • lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] • measure and begin to record the following: <ul style="list-style-type: none"> • lengths and heights 	<ul style="list-style-type: none"> • compare, describe and solve practical problems for: <ul style="list-style-type: none"> • mass/weight [for example, heavy/light, heavier than, lighter than] • capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] • measure and begin to record the following: <ul style="list-style-type: none"> • mass/weight • capacity and volume <p>(The pairs of terms: mass and weight, volume and capacity, are used interchangeably at this stage.)</p>

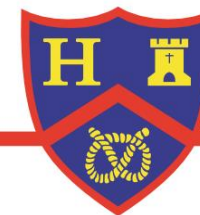
Spring	Number Place value (within 20)	Number Addition and subtraction (within 20)	Number Place value (within 50)	Measurement Length and height	Measurement Mass and volume
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Spring Term Objectives – Y2

<p>Times table/mental maths focus:</p> <ul style="list-style-type: none"> Review 2s and 10s New: 5s Derive and use related facts up to 100 E.g. $3+7 = 10$ so 30 add 70 – 100 Count on and back in 10s from any given number 	<p>Multiplication and division</p> <ul style="list-style-type: none"> recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts
<p>Measurement – money</p> <ul style="list-style-type: none"> recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value find different combinations of coins that equal the same amounts of money solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change 	
<p>Measurement – length and height</p> <ul style="list-style-type: none"> choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) to the nearest appropriate unit, using rulers compare and order lengths and record the results using $>$, $<$ and $=$ 	<p>Measurement – mass, capacity and temperature</p> <ul style="list-style-type: none"> choose and use appropriate standard units to estimate and measure mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit, using scales, thermometers and measuring vessels compare and order mass, volume/capacity and record the results using $>$, $<$ and $=$

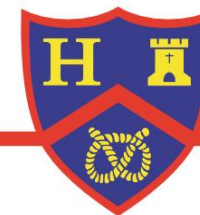
Spring	Measurement Money	Number Multiplication and division	Measurement Length and height	Measurement Mass, capacity and temperature



Spring Term Objectives – Y3

Spring Term Objectives – Y3	
Fractions <ul style="list-style-type: none"> 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 compare and order unit fractions, and fractions with the same denominators count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 	Times table/mental maths focus: <ul style="list-style-type: none"> Review: 2,5,10,3 New: 4 times table Multiply and divide by 10 (whole numbers)
	Multiplication and division <ul style="list-style-type: none"> 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 solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
Measurement – length and perimeter <ul style="list-style-type: none"> measure, compare, add and subtract: lengths (m/cm/mm); measure the perimeter of simple 2-D shapes 	Measurement – mass and capacity <ul style="list-style-type: none"> measure, compare, add and subtract mass (kg/g) and volume/capacity (l/ml)

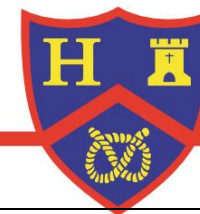
Spring	Number Multiplication and division B	Measurement Length and perimeter	Number Fractions A	Measurement Mass and capacity
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Spring Term Objectives – Y4

Times table/mental maths focus:	Multiplication and division
<ul style="list-style-type: none"> Review: 2s, 5s, 10s, 3s, 4s, 8s, 6s, 7s, 11s New: 9s 12s Addition and subtraction of multiples of 10, 100 and 1000 Known multiplication facts ($4 \times 6 = 24$, $40 \times 6 = 240$, $400 \times 6 = 2400$, $2400 / 6 = 400$, $2400 / 60 = 4$) 	<ul style="list-style-type: none"> 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 <i>Introduction of short division as per calculation policy</i>
Fractions	
<ul style="list-style-type: none"> recognise and show, using diagrams, families of common equivalent fractions solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number add and subtract fractions with the same denominator 	
Measurement – length and perimeter	Decimals
<ul style="list-style-type: none"> convert between different units of measure [for example, kilometre to metre] measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres 	<ul style="list-style-type: none"> recognise and write decimal equivalents of any number of tenths or hundreds 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 count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10

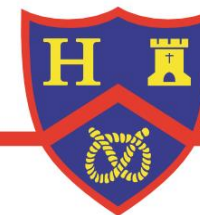
Spring	Number	Measurement	Number	Number
	Multiplication and division B	Length and perimeter	Fractions	Decimals A



Spring Term Objectives – Y5

Mental maths/times table focus:	Fractions
<ul style="list-style-type: none"> multiply and divide numbers mentally, drawing upon known facts multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³) 	<ul style="list-style-type: none"> multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams <i>continue to develop their understanding of fractions as numbers, measures and operators by finding fractions of numbers and quantities.</i>
Multiplication and division	Decimals and percentages
<ul style="list-style-type: none"> multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates 	<ul style="list-style-type: none"> read and write decimal numbers as fractions [for example, 0.71 = 71/100] recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents round decimals with 2 decimal places to the nearest whole number and to 1 decimal place read, write, order and compare numbers with up to 3 decimal places solve problems involving number up to 3 decimal places recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction solve problems which require knowing percentage and decimal equivalents of 1/2 , 1/4 , 1/5 , 2/5 , 4/5 and those fractions with a denominator of a multiple of 10 or 25
Measurement – perimeter and area	Statistics
<ul style="list-style-type: none"> measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm²) and square metres (m²), and c 	<ul style="list-style-type: none"> solve comparison, sum and difference problems using information presented in a line graph complete, read and interpret information in tables, including timetables

Spring	Number Multiplication and division B	Number Fractions B	Number Decimals and percentages	Measurement Perimeter and area	Statistics
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Spring Term Objectives – Y6

Mental maths/times table focus:	Statistics
<ul style="list-style-type: none"> Multiply and divide whole numbers and decimals by 10, 100 and 1000 Count forwards and backwards with positive and negative whole numbers, including through zero 	<ul style="list-style-type: none"> interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average
Algebra	Ratio
<ul style="list-style-type: none"> use simple formulae generate and describe linear number sequences express missing number problems algebraically find pairs of numbers that satisfy an equation with 2 unknowns enumerate possibilities of combinations of 2 variables 	<ul style="list-style-type: none"> solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison solve problems involving similar shapes where the scale factor is known or can be found solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
Area, perimeter and volume	Fractions, decimals and percentages
<ul style="list-style-type: none"> recognise that shapes with the same areas can have different perimeters and vice versa recognise when it is possible to use formulae for area and volume of shapes calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³] 	<ul style="list-style-type: none"> associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8] identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places multiply one-digit numbers with up to 2 decimal places by whole numbers use written division methods in cases where the answer has up to 2 decimal places solve problems which require answers to be rounded to specified degrees of accuracy recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

