



Tudhoe Colliery Primary School



Spring Term Maths in Year 1

Place Value/Number	Addition/Subtraction	Multiplication/Division	Fractions
<ul style="list-style-type: none">Count, read and write numbers to 100 in numeralsGiven a number, identify one more or one less	<ul style="list-style-type: none">Represent and use number bonds and related subtraction facts within 20Add and subtract one digit and two digit numbers to 20, including 0Solve one and two step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems.	<ul style="list-style-type: none">Use concrete objects and pictorial representations to show multiplicationUse concrete objects and pictorial representations to represent divisionSolve one and two step problems involving multiplication and division	<ul style="list-style-type: none">To recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity.To recognise quarters of an amount of objects.To shade a quarter of a shape
Measures	Statistics	Geometry	NON-NEGOTIABLE FACTS
<ul style="list-style-type: none">Compare, describe and solve practical problems that involve length and height, capacity and volume and weight and massMeasure and begin to record length and height, capacity and volume and weight and mass	NONE TAUGHT	<ul style="list-style-type: none">To recognise and name 2D shapes.	2D SHAPE NAMES RECOGNISE NUMBERS UP TO 100 NUMBER BONDS TO 20.



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Spring Term Maths in Year 2

Place Value/Number	Addition/Subtraction	Multiplication/Division	Fractions
<ul style="list-style-type: none"> To read and write numbers to at least 100 in figures and words. To count from 0 in 2s, 3s and 5s. To count from any number in 10s. Use place value and number facts to solve problems. To compare and order numbers up to 100 using the more than and less than symbols. 	<ul style="list-style-type: none"> To use column addition to calculate TU + 10 To use column subtraction to calculate TU - 10 To use column addition to calculate TU + TU To use column subtraction to calculate TU - TU Recall and use addition and subtraction facts to 20 fluently and use these to help with calculations. Recognise the inverse relationship between addition and subtraction. Show that the addition of numbers can be done in any order (commutative law) and subtraction cannot. 	<ul style="list-style-type: none"> Use the x = and ÷ symbols accurately. Show that multiplications can be done in any order with the same result. To solve problems involving multiplication and division, using materials, arrays and grouping Solve problems in contexts. 	<ul style="list-style-type: none"> Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ of a length, shape, set of objects or quantity. To recognise the equivalence between two quarters and one half. Write simple fractions correctly.
Measures	Statistics	Geometry	NON-NEGOTIABLE FACTS
<ul style="list-style-type: none"> To recognise the symbols for pounds and pence To find different combinations of coins that would make a given total Solve simple problems in context that involve the addition and subtraction of money of the same unit, including giving change. 	<ul style="list-style-type: none"> To interpret and construct simple tally charts. To answer questions by counting the number in a category. 	<ul style="list-style-type: none"> To identify and describe the features of 2D shapes, including the number of sides and line symmetry in a vertical line. Compare and sort 2D shapes in everyday objects. 	<p>PENCE IN A POUND</p> <p>2, 3, 5 AND 10 TIMES TABLES.</p> <p>MEANING OF SIDES AND CORNERS</p> <p>SYMMETRY</p>



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Spring Term Maths in Year 3

Place Value/Number	Addition/Subtraction	Multiplication/Division	Fractions
<ul style="list-style-type: none"> To count from 0 in 4, 8, 50 and 100 To count from any number in 100s. To read and write numbers up to 1,000 in figures and words. To find 10 or 100 more. To find 10 or 100 less. Solve number problems involving these ideas and skills. 	<ul style="list-style-type: none"> To use column addition to calculate HTU + HTU To use column subtraction to calculate HTU – HTU Solve problems, including missing number problems, using these skills. 	<ul style="list-style-type: none"> To use To recall and solve multiplication facts for the 3, 4 and 8 times table To use short multiplication to calculate TU x U To use short division to calculate TU ÷ U Use knowledge of times tables to calculate larger multiplications. Solve problems, including missing number problems, using multiplication and division skills and scaling. 	<ul style="list-style-type: none"> To find unit-fractions of amounts and non-unit fractions with small denominators To count up and down in tenths Solve problems that involve the use of these skills. To represent and show equivalent fractions using diagrams. To compare and order unit fractions and fractions with the same denominators
Measures	Statistics	Geometry	NON-NEGOTIABLE FACTS
<ul style="list-style-type: none"> To measure and compare the length of objects (mm, cm, m) To measure and compare the mass of objects (kg, g) 	<ul style="list-style-type: none"> To interpret and present data in pictograms To solve one and two step problems involving the interpretation of data 	<ul style="list-style-type: none"> To identify angles as a property of a shape or description of a turn To identify right angles and that two right angles make a half turn and three make three quarters of a turn To identify that four right angles make a full turn. To identify whether an angle is greater or lower than a right angle. 	<p>3, 4 AND 8 TIMES TABLES</p> <p>CM IN A METRE</p> <p>GRAMS IN A KILOGRAM</p> <p>DEGREES IN A FULL TURN</p> <p>DEGREES IN A RIGHT ANGLE</p>



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Spring Term Maths in Year 4

Place Value/Number	Addition/Subtraction	Multiplication/Division	Fractions
<ul style="list-style-type: none"> To count in multiples of 6, 7, 9, 25 and 1,000 To count backwards through zero into negative numbers Read Roman Numerals up to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value To solve number and practical problems that involve all of the above skills and with increasingly large positive numbers. 	<ul style="list-style-type: none"> To use column addition to calculate ThHTU + ThHTU To use column subtraction to calculate ThHTU - ThHTU Solve 2-step addition and subtraction problems in context, deciding which operations and methods to use and why. Estimate and use inverse operations to check answers to a calculation. 	<ul style="list-style-type: none"> To use short multiplication to calculate HTU x U To use short division to calculate HTU ÷ U Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects Use place value and context to multiply and divide by numbers such as 1, 0 or 10. 	<ul style="list-style-type: none"> Find the effect of dividing a 1 or 2 digit number by 10 or 100. To recognise and write decimal equivalents of any number of tenths or hundredths To compare and order numbers with up to 2 decimal places To solve simple money and measure problems involving decimals up to 2 decimal places. Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$. Round decimals with one decimal place to the nearest whole number
Measures	Statistics	Geometry	NON-NEGOTIABLE FACTS
<ul style="list-style-type: none"> To measure and calculate the perimeter of a rectilinear figure To find the area of rectilinear shapes by counting squares. 	<ul style="list-style-type: none"> To interpret and present discrete and continuous data in bar charts or time graphs. Solve problems involving comparisons, sum and difference using information presented in bar charts. 	<ul style="list-style-type: none"> To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and size To identify lines of symmetry in shapes presented in different orientations 	<p>MEANING OF AREA</p> <p>MEANING OF PERIMETER</p> <p>6, 7 AND 9 TIMES TABLE</p> <p>QUADRILATERAL, TYPES OF TRIANGLE</p> <p>DECIMAL EQUIVALENTS OF $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$</p>



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Spring Term Maths in Year 5

Place Value/Number	Addition/Subtraction	Multiplication/Division	Fractions
<ul style="list-style-type: none"> To round numbers up to 1 million to any degree of accuracy. To understand the meaning of decimals and express tenths, hundredths and thousandths as fractions and decimals. To multiply and divide numbers by 10, 100 and 1,000. To read Roman Numerals up to 1,000 To solve number and practical problems that involve all of the above. To count forwards or backwards from any number in multiples of 10 To read, write, order and compare numbers with up to 3 decimal places. 	<ul style="list-style-type: none"> To use column addition to calculate add and subtract numbers with more than 4 digits, including decimals To use column subtraction to calculate subtract numbers with more than 4 digits, including decimals Solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why. To add and subtract numbers of increasing size mentally. 	<ul style="list-style-type: none"> To use short multiplication to calculate ThHTU x U To use long multiplication to calculate ThHTU x TU To use short division to calculate ThHTU ÷ U To identify multiples and factors including all factor pairs of a number. Solve problems involving multiplication and division, using knowledge of factors and multiples. To know and use the vocabulary of prime numbers and prime factors To establish whether a number up to 100 is prime and know the prime numbers up to 19. To solve one and two step problems involving all of the above. 	<ul style="list-style-type: none"> To compare and order fractions with denominators that are all multiples of the same number To add fractions with uncommon denominators. To subtract fractions with uncommon denominators. To recognise improper fractions and mixed numbers and convert between them. Solve problems involving numbers with up to 3 decimal places. To identify, write and name equivalent fractions of a given fraction To recognise the per cent symbol and understand that per cent means "number of part per 100" To write percentages as a fraction with a denominator of 100.
Measures	Statistics	Geometry	NON-NEGOTIABLE FACTS
<ul style="list-style-type: none"> To convert between different units of metric measure, for example kilometres and metres, centimetres and metres, centimetres and millimetres, grams and kilograms, litres and millilitres To understand and use the approximate equivalence between metric and common imperial units of measure (e.g inches, pounds, pints) 	<ul style="list-style-type: none"> To read and interpret timetables. To solve comparison, sum and difference problems using information presented in line graphs. 	<ul style="list-style-type: none"> To distinguish between regular and irregular polygons To use the properties of rectangles to deduce about missing angles or lengths To identify 3D-solids from their 2D representations, including cubes and cuboids. 	<p>ALL TIMES TABLES.</p> <p>METRIC MEASUREMENT CONVERSIONS.</p> <p>SQUARE NUMBERS.</p> <p>MULTIPLES AND FACTORS.</p> <p>MEANING OF REGULAR AND IRREGULAR POLYGONS</p> <p>PRIME NUMBERS</p>



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Spring Term Maths in Year 6

Place Value/Number		Calculations			Fractions
<ul style="list-style-type: none"> To round any number to any required degree of accuracy. To read and write numbers up to 10 million. To identify the value of digits in numbers up to 10 million. To identify common factors, common multiples and prime numbers To express decimals up to 3dp as decimals and fractions. To multiply and divide numbers by 10, 100 and 1,000 into 3dp. Read, write and order numbers up to 10 million. Solve number and practical problems using these skills. 		<ul style="list-style-type: none"> To use long division to calculate $\text{ThHTU} \div \text{TU}$ To use short multiplication to calculate multiplication of decimals (1dp and 2dp) To use short division to calculate decimal remainders. To use column addition to calculate addition of more than 3 different numbers. To use column subtraction to calculate subtraction of numbers with varied decimal places. Identify common factors, common multiples and prime numbers. Solve problems involving addition, subtraction, multiplication and division problems, deciding which operations to use and why. Use estimation to check answers. To use written division methods in cases where the answer has up to two decimal places. 			<ul style="list-style-type: none"> To divide proper fractions by a whole number. To multiply pairs of common fractions. To add more than 2 fractions with uncommon denominators. To subtract more than 2 fractions with uncommon denominators. To convert between fractions, decimals and percentages. To order fractions using common factors. To associate a fraction with division and calculate decimal equivalents, for example $3/8 = 0.375$ To compare and order fractions To use knowledge of common factors to simplify fractions.
Measures	Statistics	Geometry	Algebra	Ratio and Proportion	NON-NEGOTIABLE FACTS
<ul style="list-style-type: none"> To solve problems involving the conversion of units of measurement up to 2 decimal places. To calculate the area and volume of shapes. Solve problems involving the conversion of measures up to 3dp. To recognise that shapes with the same area or perimeter can have different measurements To calculate the area of parallelograms and triangles 	<ul style="list-style-type: none"> To interpret and construct line graphs. To interpret and construct pie charts. 	<ul style="list-style-type: none"> To draw 2D shapes using given dimensions To illustrate and name parts of a circle, such as radius, diameter and circumference. To recognise angles where they meet at a point are on a straight line so are vertically opposite and use this to find missing angles. 	<ul style="list-style-type: none"> To express missing number problems algebraically. To use simple formulae expressed in words. To generate and describe linear number sequences. To enumerate all possibilities of two variables. 	<ul style="list-style-type: none"> To solve problems involving the relative sizes of two quantities, where missing values can be found using multiplication and division facts. To solve problems involving the calculation of a percentage of an amount. To solve problems involving the scale factor of shapes. To solve problems involving unequal sharing or grouping. 	<p>COMMON MULTIPLES, FACTORS AND COMMON FACTORS</p> <p>TIMES BIGGER OR TIMES SMALLER</p> <p>CONVERT MILES TO KM</p> <p>PRIME NUMBERS</p> <p>CIRCLE PROPERTIES</p>

