Priestley Primary School Maths Assessment Steps

Steps 16 - 18



Yr5	Number System	Addition & Subtraction	Multiplication & Division	Fractions & Decimals	
		End of Y	ear Expectations		
 I can read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit I can count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through 0. I can round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 I can read Roman numerals to 1,000 (M) and recognize years written in Roman numerals I can read, write, order and compare numbers with up to 3 d.p. I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents I can round decimals with two d.p. to the nearest whole number and to one d.p I can solve problems involving number up to three d.p. 		I can add and subtract whole numbers with more than 4 digits using formal columnar addition I can add and subtract numbers mentally with increasingly large numbers I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	I can identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers I can multiply and divide numbers mentally using known facts I can multiply number up to four digits by a one or two digit number using formal written method including long multiplication for two digit numbers I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 I can divide numbers up to four-digits by a one-digit number using the formal written method of short division and interpret remainders appropriately and according to context I can solve problems using multiplication and division and a combination of these including understanding the equals sign I can solve problems involving multiplication and division including scaling by simple fractions and problems involving simple ratios I know and use the words prime number, prime factors and composite numbers I can tell whether a number up to 100 is a prime number and recall prime numbers up to 19 I can recognise and use square numbers and cube numbers and their notation I can solve problems using multiplication and division using my knowledge of factors and multiples square and cubes.	 I can compare and order fractions whose denominators are multiples of the same number I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <1 as mixed numbers e.g. 2/5 + 4/5 = 6/5 = 1 1/5 I can add and subtract fractions with the same denominator and multiples of the same number I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams I can read and write decimal numbers as fractions I can recognise the percent symbol (%) and understand percent means number of parts per hundred and write percentages as a fraction with a denominator 100 and as a decimal I can solve problems which require knowing percentage and decimal equivalents of ½, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25. * 	
18-3 Mastering		18-3 Mastering	18-3 Mastering	18-3 Mastering	
18.2	I can read, write and order numbers to at least 1,000,000 and determine the value of each digit I can count in thousands from any given number I can put negative numbers onto a number line I can round any number to the nearest 1000, 10,000 and 100,000. I can read Roman numerals to1000 (I to M) and I understand how numbers developed to include 0.	I can add and subtract mentally a five digit number and a multiple of a hundred greater than a 1000 I can estimate the answer to a calculation using rounding and say whether my answer is likely I can solve addition and subtraction two step problems in contexts, deciding which operations to use and why.	I can identify factors including all factor pairs of a number, and common factors of two numbers I can identify multiples of numbers I can use multiplication and division facts up to 12 x 12 I can divide up to four-digit number by a one-digit number using short division I can solve multiplication and division two- step problems in contexts, deciding which operations to use and why Solve problems involving multiplying and	 I can compare and order fractions whose denominators are multiples of the same number I can add and subtract fractions with the same denominator and multiples of the same number I can read and write decimal numbers as fractions over 10 and 100. I know the decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25 I can multiply proper fractions and mixed 	

	I can read, write, order and compare numbers with up to 3 d.p I can recognise and use thousandths and relate them to hundredths, tenths and decimal equivalents I can round decimals with two d.p. to the nearest whole number I can solve problems involving numbers to three d.p				 adding, including integer scaling problems I can interpret remainders appropriately and according to context I can solve problems using multiplication and division using my knowledge of factors and multiples square and cubes. 		numbers by whole numbers, supported by materials and diagrams I can read and write decimal numbers as fractions I can write percentages as a fraction with a denominator 100 and as a decimal I can identify, name and write equivalent fractions of a given fraction
17.1	I can read, write and order numbers to at least 100,000 and determine the value of each digit I can count in hundreds from any given number I can count forwards and backwards through 0 I can round 4 digit numbers to the nearest 10, 100 and 1000 I can read Roman numerals to 50 (I to L) I can read, write, order and compare numbers with 2 d.p. I can recognise and use hundredths and tenths and relate decimal equivalents I can round decimals with one d.p. to the nearest whole number	17.2	I can add mentally a four digit number and a multiple of 10 greater than 100 I am beginning to use rounding to estimate the answer to a calculation I can solve more complex one-step problems in contexts, deciding which operations to use and why	17.2	 I can find factors for numbers to 50 I can use multiplication and division facts for the 7, 8 and 9 x table I can divide a three-digit number by a one digit number using short division I can solve more complex one-step problems in contexts, deciding which operations to use and why I know and use the words prime number, prime factors and composite numbers I can tell whether a number up to 100 is a prime number and recall prime numbers up to 19 I can recognise and use square numbers and cube numbers and their notation 	17.2	 I can compare and order fractions whose denominators are multiples of the same number using diagrams I can recognise and show equivalent fractions with small denominators inc tenths and hundredths I can add and subtract fractions with the same denominator I know the decimal equivalents of 1/2. 1/4, 1/5, ¾ I can multiply proper fractions by a whole number using materials and diagrams
16.2	 I can read, write and order numbers to at least 10,000 and determine the value of each digit I can count backwards through 0 including negative numbers) I can round 3 digit numbers to the nearest 10 or 100 I can read Roman numerals to 20 (I to XX) I can read, write, order and compare numbers with 1 d.p. 	16.2	 I can add and subtract 4 digit numbers using columnar addition I can add mentally a three digit number and a single digit, multiple of 10 or multiple of 100 	16.2	 I can find factors and all factor pairs for numbers to 20 I can use multiplication and division facts for the 2, 3, 4, 5, 6 and 10 x table I can divide a two-digit number by a one digit number using short – division 	16.2	 I can identify 3D shapes from 2D representations I can measure angles in degrees I can identify acute and obtuse angles I can identify angles at a point on a straight line and a ½ turn

Yr5	Measures	Statistics	Position & Direction	Properties of Shape					
	End of Year Expectations								
•	I can convert between different units of metric	I can solve comparison, sum and difference	I can identify, describe and represent the position	I can identify 3D shapes, including cubes and					
	measure (e.g. km and m; cm and m; cm and mm; g and kg; l and ml)	problems using information presented in line graphs	of a shape following a reflection or translation, including the appropriate language, and, know	cuboids, from 2D representations I know angles are measured in degrees: estimate					
	I can understand and use approximate equivalences between metric units and common imperial units such as inches, pounds	I can complete, read and interpret information in tables, including time tables	that the shape has not changed.	and compare acute, obtuse and reflex angles I can draw given angles and measure them in degrees (o)					

I caccord I caccord	and pints I can measure and calculate the perimeter of composite rectilinear shapes in cm and m I can calculate and compare the area of squares and rectangles including using standard units cm2 and m2 and estimate the area of irregular shapes I can estimate volume (e.g. using 1 cm3 clocks to build cubes and cuboids) and capacity (e.g. using water) I can solve problems involving converting between units of time I can use all four operations to solve problems including measure(e.g. length, mass, volume, money) using decimal notation including scaling				18-3 Mastering		I can identify: angles at a point and one whole turn (total 3600) angles at a point on a straight line and 1/2 turn (total 1800) other multiples of 900 I can use the properties of rectangles to deduce related facts and find missing lengths and angles I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles 18-3 Mastering	
18.2	I can convert between units of length, capacity and time (seconds, minutes, hours, days) I can understand and use equivalences between metric units and common imperial units such as inches, pounds and pints I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres I can find the area of rectilinear shapes by counting squares I can estimate different volumes and capacity I can solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	18.2	I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and line graphs	18.2	I can describe movements between positions as translations of a given unit and reflections including the appropriate language, and know that the shape has not changed.	18.2	 I can make models of 3D shapes and recognise 3D shapes in different orientations I can identify acute and obtuse angles and reflex and compare and order angles up to two right angles (180) by size I can identify angles at a point and one whole turn (360) and other multiples of 90 I can use the properties of rectangles to deduce related facts and find missing lengths and angles I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles 	
17.2	I can convert between units of length and capacity (ml, l) I can find the length of a rectangle given the perimeter and width I can use the formula L x B to find the area of square/rectangle I can solve more complex conversion problems in contexts, deciding which operations to use and why	17.2	I can collect discrete data I can draw a line graph I can read and interpret timetables	17.2	I can describe movements between positions as translations of a given unit to the left/right and up/down	17.2	 I can identify and describe the properties of 3D shapes, including the number of edges, vertices and faces I can draw given angles • I can identify reflex angles 	
16.2	I can convert between units of length (mm, cm, m, km) I can find the perimeter of simple shapes (e.g. squares and rectangles) I can find the area of a shape by counting squares	16.2	I can solve comparison, sum and difference problems using information in bar charts, pictograms and tables	16.2		16.2	 I can identify 3D shapes from 2D representations I can measure angles in degrees I can identify acute and obtuse angles I can identify angles at a point on a straight line and a ½ turn 	

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	I can solve conversion problems in					
16.1	contexts, deciding which operations to	16.1		16.1	16.1	
	use and why					

Problem Solving

I can solve number and practical problems using all of my number skills.