Maths Curriculum map 2020-2021

Year 5 Fawbert and Barnard's Primary School

	KIRFs (Key Instant Recall Facts)				
Autumn		Sp	ring	Su	mmer
•	 I know one and two decimal place number bonds for numbers between 1 and 10 I know the multiplication and division facts for 	•	Recap multiplication and division facts for all times tables up to 12×12	•	I can recall square numbers up to 12^2 and their square roots and multiplication and division facts for all times tables up to 12×12
	all times tables up to 12×12	•	I can find factor pairs of a number	•	Recall prime numbers up to 50
		•	I can identify prime numbers up to 50	•	I can count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000

Quick overall focus curriculum map:

Strand	Number of weeks	Autumn	Spring	Summer
Place value	1	Round, compare, order place value to 10,000	Round, compare, order place value to 100,000	Round, compare, order place value to 1,000,000
Adding and subtracting	2	Adding and subtracting mentally, formally and using estimating of values up to 10,000.	Adding and subtracting mentally, formally and using estimating including decimals of values up to 100,000.	Adding and subtracting mentally, formally and using estimating including decimals and fractions of values up to 1,000,000.
dividing	2/3	To know times tables (up to 12 x 12), powers of 10, factors, multiples and prime numbers up to 50.	To know times tables (up to 12 x 12), powers of 10, factors, multiples and prime numbers up to 50.	To know times tables (up to 12 x 12), powers of 10, factors, multiples and prime numbers up to 100.
ying and		Multiply 4-digit numbers by 1-digt numbers and powers of 10	Multiply 4-digit numbers by 1- digt numbers and teen numbers up to 20	Multiply 4-digit numbers by 2- digit numbers
Multipl		Divide numbers with known number facts	Divide 4-digit numbers by 1- digit numbers	Divide 4-digit numbers by 1- digit numbers with remainders, showing fractions or decimal answers
Fractions	2/3	Converting fractions into decimals and percentages, finding equivalent fractions – hundredths up to 1.	Converting fractions into decimals and percentages, finding equivalent fractions – thousandths, and to add and subtract fractions and decimals up to and beyond 1.	Converting fractions into decimals and percentages, finding equivalent fractions and to add, subtract and multiply fractions up to and beyond 1.
ments	1/2	Metric conversions in fluency and word problems.	Metric and imperial conversions in fluency problems.	Metric and imperial conversions in fluency and word problems.
Measure		Perimeter of regular and composite shapes and volume regular shapes using different metric conversions.	Area of composite shapes, volume of shapes with the same metric length.	Perimeter and area of composite shapes, volume of shapes with different metric and imperial conversions.
ometry	1/2	Basic 2D and 3D shape.	Knowledge of angles and lengths distinguishing between regular and irregular polygons.	Solving missing angles that would create a right angle, straight line or a full turn
Ge		Translation and reflection of shapes.	Translations and reflections of shapes with coordinates	Translations and reflections of shapes with coordinates
Statistics	1	Timetables	Timetables and line graphs	Tables and graphs
Daily Maths	daily	Time, shapes, reading tables an roman numerals	d graphs, times tables, multiplying	and dividing by powers of 10,

	Autumn	Spring	Summer
place value (1 week)	 (PM unit 1) Focus 10 000 Read, write and compare numbers to at least <u>10</u> 000 and determine the value of each digit 	 (PM unit 1) Focus 100 000 Read, write and compare numbers to at least <u>100 000</u> and determine the value of each digit 	 (PM unit 2) Focus 1 000 000 Read, write and compare numbers to at least <u>1 000 000</u> and determine the value of each digit
Number and	 Count forwards or backwards in steps of powers of 10 from any given number up to 10,000 	 Count forwards or backwards in steps of powers of 10 from any given number up to 100000 Round any number up to 1 00 	• Count forwards or backwards in steps of powers of 10 from any given number up to 1 000 000
	 Round any number up to 10 000 to the nearest 10, 100, 1000 and 10 000 	000 to the nearest 10, 100, 1000, 10 000 and 100 000	 Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 1 000 000
	 Solve number problems and practical problems that involve number, place value and rounding up to 	practical problems that involve number, place value and rounding up to 100 000	• Solve number problems and practical problems that involve number, place value and rounding up to 1 000 000
	10 000	context, count forwards and backwards with positive and negative whole numbers through zero	 Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero
ដ	History – dates or periods o Geography- distances on m Science- distances and dian	f time aps neters of planets, temperature – negati	ve numbers

	(DM upit 2)	(DM upit 2+)	
2 weeks)	Focus 10 000	Focus 100 000 including decimals	Focus 1 000 000 including fractions
lition and subtraction (Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) of values up to 10 000 	• Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) <u>decimals</u> of values up to 100 000	 Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) decimals and fractions of values up to 1 000 000
Add	 Add and subtract numbers mentally with increasingly large numbers of values up to 10 000 	 Add and subtract numbers mentally with increasingly large numbers of values up to 100 000 	 Add and subtract numbers mentally with increasingly large numbers of values up to 1 000 000
	 Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy of values up to 10 000 	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy of values up to 100 000	• Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy of values up to 1 000 000
	 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why of values up to 10 000 	 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why of values up to 100 000 	 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why of values up to 1 000 000
ខ	DT- Food and calories in a r Science – Height of plants g Geography – distance betw	neal growth geen countries, height of mountains	1

Maths Curriculum map 2020-2021	Year 5 Fawbert and Barnard's Primary School	
Maths Curriculum map 2020-2021 (PM unit 8-12)- Focus on hundredths • Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths making links to decimals and measures • Recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator hundred, and as a decimal fraction • Read and write decimal numbers of up to 2 decimal places as fractions • Compare and order fractions whose denominators are all multiples of the same number • Solve problems involving number up to three decimal places, • Solve problems which require knowing percentage and 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.	Year 5Fawbert and Barnar(PM unit 8-12)Focus on thousandths, adding and subtracting•Recognise mixed numbers and improper fractions and convert from one form to the other•Add and subtract fractions with the same or different denominators•Add and subtract decimals with a different number of decimal places•Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths making links to decimals and measures•Compare and order fractions whose denominators are all multiples of the same number•Find fractions of numbers and quantities•Read, write, order and compare numbers with up to three decimal places•Round decimals with two decimal places•Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	 rd's Primary School (PM unit 8-12) Focus on Converting between PER DEC FRAC, including multiplying fractions Convert confidentially between percentages, decimals and fractions Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Compare and order fractions whose denominators are all multiples of the same number Recognise mixed numbers and improper fractions and convert from one form to the other Add and subtract fractions with the same denominator and multiples of the same number Add and subtract decimals with a different number of decimal places Round decimals with two decimal places Read, write, order and compare numbers with up to three decimal places Solve problems and puzzles involving number up to three decimal places, checking the reasonableness of answers Solve problems which require knowing percentage and decimal
		 Solve problems which require knowing percentage and 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.
DT- Fractions of foods and balar	nced diet	

Maths Curriculum map 2020-2021Year 5Fawbert and Barnard's Primary School				
(PM unit 6 and 16)Focus on metricconversions andperimeter	 (PM unit 6,1 6 and 17) Focus on Imperial conversions and area 	 (PM unit 6, 16 and 17) Focus on metric and imperial conversions and on perimeter and area 		
Convert between different units of metric measure Measure and calculate	 Understand and use equivalences between metric and common imperial units such as inches, pounds and pints 	 Understand and use equivalences between metric and common imperial units such as inches, pounds and pints 		
 Measure and calculate the perimeter of composite/ rectilinear shapes in centimetres and metres Use all four operations to solve problems involving measure Estimate volume Solve problems involving converting between units of time 	 Calculate and compare the area rectilinear shapes including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Use all four operations to solve problems involving measure 	 pints Calculate and compare the area and perimeter of rectilinear shapes including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and estimate the area of irregular shapes Estimate volume e.g. using 1cm³ blocks to build cubes and cuboids and capacity Solve problems involving converting between units of time Use all four operations to solve problems involving measure 		
Art – painting specific areas – c	ubism			
Business – creating a theme par History – size of armies, land ga	rk, consider where to place what. ined through war			

Maths Curriculum map 2020-2021		Year 5 Fawbert and Barnard's Primary School	
(>	(PM unit 13 and 14)	(PM unit 13 and 14)	(PM unit 13 and 14)
eel	Focus on naming 2D and 3D	Focus on knowledge of angles in shapes	Focus on solving missing angles
3	shapes		
× (Know angles are measured in 	Use angle sum facts and other
etr	 Identify 3-D shapes, 	degrees: estimate and compare	properties to make deductions
L DO	including cubes and other	acute, obtuse and reflex angles	about missing angles
Ge	cuboids, from 2-D		
	representations	 Draw given angles, and measure 	 Identify 3-D shapes, including
		them in degrees (°)	cubes and other cuboids, from 2-D
	Draw lines accurately to the		representations
	nearest millimetre and use	• Identify: o angles at a point and one	
	conventional markings for	whole turn (total 360°) o angles at a	Know angles are measured in
	parallel lines and right	point on a straight line and ½ a turn	degrees: estimate and compare
	angles.	(total 180°) o other multiples of 90°	acute, obtuse and reflex angles
	 Know angles are measured in 	• Use angle sum facts and other	Draw given angles, and measure
	degrees: estimate and	 Ose angle sum facts and other properties to make deductions 	them in degrees (°)
	compare acute obtuse and	about missing angles	them in degrees ()
	reflex angles		 Identify: o angles at a point and
		• Use the properties of rectangles to	one whole turn (total 360°) o
	• Use the properties of	deduce related facts and find	angles at a point on a straight line
	rectangles to deduce related	missing lengths and angles	and ½ a turn (total 180°) o other
	facts and find missing lengths		multiples of 90°
	and angles e	• Distinguish between regular and	
		irregular polygons based on	• Use the properties of rectangles
		reasoning about equal sides and	to deduce related facts and find
		angles.	missing lengths and angles
	DT – decigning buildings, skotsbing	•	
8	DT – designing buildings, sketching Art – Cubism	• and creating nets	
8	DT – designing buildings, sketching Art – Cubism Computing – rotation and angles	• ; and creating nets	
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ខ	DT – designing buildings, sketching Art – Cubism Computing – rotation and angles	• ; and creating nets (DM upit 15)	(DM unit 15)
8	DT – designing buildings, sketching Art – Cubism Computing – rotation and angles (PM unit 15)	e gand creating nets (PM unit 15) Focus on accurate reflection and	(PM unit 15)
8	DT – designing buildings, sketching Art – Cubism Computing – rotation and angles (PM unit 15) Focus on accurate reflection and translation – not on a	• g and creating nets (PM unit 15) Focus on accurate reflection and translation – on a graph	(PM unit 15) Focus on accurate multiple steps of reflection and translation – not
S	DT – designing buildings, sketching Art – Cubism Computing – rotation and angles (PM unit 15) Focus on accurate reflection and translation – not on a graph	• ; and creating nets (PM unit 15) Focus on accurate reflection and translation – on a graph	(PM unit 15) Focus on accurate multiple steps of reflection and translation – not on a graph
8	DT – designing buildings, sketching Art – Cubism Computing – rotation and angles (PM unit 15) Focus on accurate reflection and translation – not on a graph	(PM unit 15) Focus on accurate reflection and translation – on a graph Identify coordinates after	(PM unit 15) Focus on accurate multiple steps of reflection and translation – not on a graph
S	DT – designing buildings, sketching Art – Cubism Computing – rotation and angles (PM unit 15) Focus on accurate reflection and translation – not on a graph • Identify. describe and	 gand creating nets (PM unit 15) Focus on accurate reflection and translation – on a graph Identify coordinates after translation or reflection 	 (PM unit 15) Focus on accurate multiple steps of reflection and translation – not on a graph Identify coordinates after
iek) CC	DT – designing buildings, sketching Art – Cubism Computing – rotation and angles (PM unit 15) Focus on accurate reflection and translation – not on a graph Identify, describe and represent the position of a	 and creating nets (PM unit 15) Focus on accurate reflection and translation – on a graph Identify coordinates after translation or reflection 	 (PM unit 15) Focus on accurate multiple steps of reflection and translation – not on a graph Identify coordinates after multiple step translation or
week) CC	DT – designing buildings, sketching Art – Cubism Computing – rotation and angles (PM unit 15) Focus on accurate reflection and translation – not on a graph • Identify, describe and represent the position of a shape following a reflection	 and creating nets (PM unit 15) Focus on accurate reflection and translation – on a graph Identify coordinates after translation or reflection Identify, describe and represent the 	 (PM unit 15) Focus on accurate multiple steps of reflection and translation – not on a graph Identify coordinates after multiple step translation or reflection
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Statistics (1 week)	 (PM unit 4) Focus on timetables Complete, read and interpret information in tables, including timetables. 	 (PM unit 4) Focus on line graphs Complete, read and interpret information in tables, including timetables. Solve comparison, sum and difference problems using information presented in a line graph 	 (PM unit 4) Focus on variation of graphs and tables Complete, read and interpret information in tables, including timetables. Solve comparison, sum and difference problems using information presented in line graphs
ຮ	Science – Drawing line graphs, reading tables and various other graphs PSHE – creating findings of a decision, creating a bar chart to show outcome Day to day time table		