Hogarth Academy Mathematics Curriculum Year 5 2022/23

Week	Day	Learning Objective
1 **Autumn 1**	Monday	Summer Holiday
	Tuesday	**Assessment (2022)**
	Wednesday	**Assessment (2022)**
	Thursday	Pre-assessment (Place Value)
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
2 **Autumn 1**	Monday	I am learning to write roman numerals up to 1, 000.
	Tuesday	I am learning to read, write and represent numbers up to 100, 000 (inc number lines)
	Wednesday	I am learning to count in powers of ten to and from 1, 000, 000.
	Thursday	I am learning to identify 1, 10, 100, 1000, 10, 000 or 100, 000 more/less than any number to 1, 000, 000.
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
3 **Autumn 1**	Monday	I am learning to determine the value of each digit in numbers to 1, 000, 000.
	Tuesday	I am learning to order numbers to 1, 000, 000 (also on a number line).
	Wednesday	I am learning to compare numbers to 1, 000,000.
	Thursday	I am learning to round to the nearest 10, 100 and 1000.
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
4 **Autumn 1**	Monday	I am learning to round numbers within 100, 000 and 1, 000,000.
	Tuesday	I am learning to solve place value problems
	Wednesday	Post-assessment (Place Value)
	Thursday	Pre-assessment (Addition and Subtraction)
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).

Week	Day	Learning Objective
5 **Autumn 1**	Monday	**Assessment (2022)**
	Tuesday	**Assessment (2022)**
	Wednesday	I am learning to add numbers mentally with increasingly larger numbers.
	Thursday	I am learning to use formal methods to add numbers with more than 4 digits.
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
6 **Autumn 1**	Monday	I am learning to use formal methods to subtract numbers with more than 4 digits.
	Tuesday	I am learning to subtract whole numbers with more than 4 digits.
	Wednesday	I am learning to round in order to check answers.
	Thursday	I am learning to use inverse to check answers.
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).

Week	Day	Learning Objective

1 **Autumn 2**	Monday	Inset Day
	Tuesday	I am learning to compare calculations.
	Wednesday	I am learning to solve multi-step problems involving addition and subtraction.
	Thursday	I am learning to solve multi-step problems involving addition and subtraction.
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
2 **Autumn 2**	Monday	Post-assessment (addition and subtraction)
	Tuesday	I am learning to identify multiples of a number.
	Wednesday	I am learning to identify common multiples of numbers.
	Thursday	I am learning to identify factors of a number.
	Friday	I am learning to identify common factors of numbers.
3 **Autumn 2**	Monday	I am learning to recall prime numbers to 19 and find primes to 100.
	Tuesday	I am learning to identify and find square numbers.
	Wednesday	I am learning to identify and find cube numbers.
	Thursday	I am learning to multiply by 10, 100 and 1000.
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
4 **Autumn 2**	Monday	I am learning to divide by 10, 100 and 1000.
	Tuesday	Post-assessment (Multiplication and division).
	Wednesday	Pre-assessment (Fractions)
	Thursday	I am learning to identify equivalent fractions using models.
	Friday	I am learning to recognise mixed numbers and improper fractions and convert from one to the other.
5 **Autumn 2**	Monday	**Assessment (2022)**
	Tuesday	**Assessment (2022)**
	Wednesday	I am learning to recognise mixed numbers and improper fractions and convert from one to the other.
	Thursday	I am learning to compare fractions less than 1.
	Friday	I am learning to order fractions less than 1.
6	Monday	I am learning to compare and order fractions greater than 1.
	Tuesday	I am learning to add and subtract fractions with the same denominator.

Autumn 2	Wednesday	I am learning to add and subtract fractions with denominators that are common multiples.	
	Thursday	I am learning to add to a mixed number.	
	Friday	I am learning to add 2 mixed numbers.	
7 **Autumn 2**	Monday	I am learning to subtract from a mixed number.	
	Tuesday	I am learning to subtract 2 mixed numbers.	
	Wednesday	Post Assessment (Fractions)	
	Thursday	Christmas Holidays	
	Friday	Christmas Holidays	

Week	Day	Learning Objective
1 **Spring 1**	Monday	Christmas Holidays
	Tuesday	Christmas Holidays
	Wednesday	Christmas Holidays
	Thursday	Pre-assessment (Multiplication and Division)
	Friday	I am learning to multiply a 4-digit number by a 1-dgit number.
2 **Spring 1**	Monday	I am learning to multiply a 2-digit number by a 2-digit number using different representations (grid/area model)
	Tuesday	I am learning to multiply a 2-digit number by a 2-digit number using different representations using a formal method.
	Wednesday	I am learning to multiply a 3-digit number by a 2-digit number using a formal method.
	Thursday	I am learning to multiply a 4-digit number by a 2-digit number using a formal method.
	Friday	I am learning to divide a 4-digit number by a 1-digit number.
3 **Spring 1**	Monday	I am learning to divide with remainders.
	Tuesday	I am learning to solve multi-step problems involving multiplication and division.
	Wednesday	I am learning to solve multi-step problems involving multiplication and division.
	Thursday	Post Assessment (Multiplication and Division)
	Friday	Pre-assessment (Fractions)
4 **Spring 1**	Monday	I am learning to multiply unit fractions by whole numbers.
	Tuesday	I am learning to multiply non-unit fractions by whole numbers.
	Wednesday	I am learning to multiply a mixed number by whole number.
	Thursday	I am learning to find fractions of amounts.
	Friday	Post-assessment (Multiplication and Division)

Week	Day	Learning Objective
5 **Spring 1**	Monday	**Assessment (2022)**
	Tuesday	**Assessment (2022)**
	Wednesday	I am learning to use fractions as operators.
	Thursday	Post Assessment (Fractions)
	Friday	Pre- Assessment (Decimals and Percentages).
6 **Spring 1**	Monday	I am learning to identify the value of each digit in a decimal (up to 3DP)
	Tuesday	I am learning to read/write fractions as decimals.
	Wednesday	I am learning to round a decimal to the nearest whole number and to 1 DP.
	Thursday	I am learning to order decimals with up to 3DP.
	Friday	I am learning to compare numbers with up to 3DP.

Week	Day	Learning Objective
1 Spring 2	Monday	I am learning to recognise the % symbol and that percent relates to number of parts per hundred.
	Tuesday	I am learning to find percentages of amounts/quantities.
	Wednesday	I am learning to write percentages as fractions and as a decimal and interchange these.
	Thursday	I am learning to find equivalent fractions, decimals and percentages.
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
2 Spring 2	Monday	I am learning to solve problems involving fractions, decimals and percentages.
	Tuesday	Pre-assessment (Perimeter and Area)
	Wednesday	I am learning to find the perimeter of a rectilinear shape (without grids)
	Thursday	I am learning to calculate perimeter of rectilinear shapes (without grids, including measurements that are missing)
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
3 Spring 2	Monday	I am learning to calculate the area of rectangles (including different scales).
	Tuesday	I am learning to find the area of compound shapes.
	Wednesday	I am learning to estimate the area of an irregular shape.
	Thursday	I am learning to solve problems involving perimeter and area.
	Friday	Post-Assessment (Perimeter and Area)
4 Spring 2	Monday	Pre-assessment (Statistics)
	Tuesday	I am learning to read and interpret line graphs.
	Wednesday	I am learning to draw line graphs.
	Thursday	Arithmetic (I am learning to develop my knowledge of mental methods).
	Friday	I am learning to use line graphs to solve sum problems.
5 Spring 2	Monday	**Assessment (2022)**
	Tuesday	**Assessment (2022)**
	Wednesday	I am learning to use line graphs to solve comparison problems
	Thursday	I am learning to use line graphs to solve difference problems.

		Friday	I am learning to read and interpret tables.
6 **Spring 2**		Monday	I am learning to read and interpret a range of 2 way tables.
		Tuesday	I am learning to solve problems involving 2 ways tables.
		Wednesday	I am learning to read timetables to extract information.
		Thursday	I am learning to solve problems involving a variety of statistic representations.
		Friday	Post-assessment (statistics)

Week	Day	Learning Objective
1 **Summer 1**	Monday	Pre-assessment (Geometry: Properties of shapes)
	Tuesday	I am learning to measure angles in degrees using a protractor (acute angles).
	Wednesday	I am learning to measure angles in degrees using a protractor (obtuse angles).
	Thursday	I am learning to draw given angles.
	Friday	I am learning to calculate missing angles on a straight line.
2 **Summer 1**	Monday	I am learning to measure angles around a point.
	Tuesday	I am learning to identify angles and lengths in quadrilaterals.
	Wednesday	I am learning to identify angles and lengths in regular and irregular polygons.
	Thursday	I am learning to solve problems involving shapes (including 3D shapes)
	Friday	Post-assessment (Geometry: Properties of shape)
3 **Summer 1**	Monday	Bank Holiday
	Tuesday	Inset day
	Wednesday	Pre-Assessment (Position and Direction)
	Thursday	I am learning to identify the position of a shape following a translation (shapes and coordinates)
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
4 **Summer 1**	Monday	I am learning to describe the position of a shape following a translation (shapes and coordinates)
	Tuesday	I am learning to identify the position of a shape following a reflection (shapes and coordinates)
	Wednesday	I am learning to describe the position of a shape following a reflection (shapes and coordinates)
	Thursday	Post assessment (Position and direction)
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).

Week	Day	Learning Objective
5 **Summer 1**	Monday	**Assessment (2022)**
	Tuesday	**Assessment (2022)**
	Wednesday	Pre-assessment (Decimals)
	Thursday	I am learning to add decimals within 1.
	Friday	I am learning to subtract decimals within 1.
6 **Summer 1**	Monday	I am learning decimal complements to 1 whole.
	Tuesday	I am learning to add decimals (crossing whole)
	Wednesday	I am learning to subtract decimals.
	Thursday	I am learning to add decimals to whole numbers.
	Friday	I am learning to subtract decimals from whole numbers.

Week	Day	Learning Objective
1 **Summer 2**	Monday	I am learning to sequence decimals and create simple rules for this.
	Tuesday	I am learning to multiply decimals by 10, 100 and 1000.
	Wednesday	I am learning to divide decimals by 10, 100 and 1000.
	Thursday	I am learning to solve problems involving decimals up to 3DP.
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
2 **Summer 2**	Monday	Post assessment (Decimals)
	Tuesday	Pre-assessment (Negative numbers)
	Wednesday	I am learning to count forwards and backwards with positive and negative numbers including through 0.
	Thursday	I am learning to place negative numbers on a number line.
	Friday	I am learning to solve problems involving negative numbers.
3 **Summer 2**	Monday	Post assessment (Negative numbers)
	Tuesday	Pre-assessment (Converting units)
	Wednesday	I am learning to convert between different units of metric measures (Kilograms, grams, Kilometres and metres)
	Thursday	I am learning to convert between different units of measures (millilitres, millimetres, milligrams)
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
4 **Summer 2**	Monday	I am learning to understand and use approximate equivalences between metric units and imperial units.
	Tuesday	I am learning to convert between different units of time.
	Wednesday	I am learning how to apply my knowledge of converting between units of time.
	Thursday	I am learning to use all 4 operations to solve problems involving measures including decimal notations (inc. scaling)
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
5 **Summer 2**	Monday	**Assessment (2022)**
	Tuesday	**Assessment (2022)**
	Wednesday	Post assessment (Converting units)
	Thursday	Pre-assessment (Volume)

	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
6 **Summer 2**	Monday	I am learning to identify the difference between volume and capacity.
	Tuesday	I am learning to compare volumes.
	Wednesday	I am learning to order volume.
	Thursday	I am learning to estimate volume and capacity.
	Friday	Arithmetic (I am learning to develop my knowledge of mental methods).
7 **Summer 2**	Monday	I am learning to solve problems involving volume and capacity.
	Tuesday	Post assessment (Volume)
	Wednesday	Consolidating based on needs of class.
	Thursday	Consolidating based on needs of class.
	Friday	Consolidating based on needs of class.
8 **Summer 2**	Monday	Consolidating based on needs of class.
	Tuesday	Consolidating based on needs of class.
	Wednesday	Consolidating based on needs of class.
	Thursday	Consolidating based on needs of class.