

This document outlines the main activities you will complete this year. Use this as a guide to prepare for lessons or check your understanding.

B scheme

Learning log 2024/25

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Name:			
Maths teacher(s):			
Maths group:			

I will:

- work to the best of my ability, showing all my workings
- complete my homework to a good standard by the deadline set
- show tenacity when solving problems
- always have the correct equipment for all lessons

Signed:				

The Mathematics Department will:

- help you develop fluency in mathematical concepts
- help you develop your mathematical communication and reasoning
- help you develop problem solving skills
- set appropriate homework
- regularly assess your progress
- give you regular feedback and let you know what else you need to do to maintain or increase your progress

Signed:

Maths Department

Every lesson you will need to bring this equipment:

- exercise book
- learning log
- scientific calculator
- black pen × 2
- pencil × 2
- ruler
- eraser
- pencil sharpener
- highlighter

When advised, you will also need to bring:

- protractor
- pair of compasses

Optionally:

colouring pencils

Sparx Maths

Online homework tasks will be set at www.sparxmaths.com

You will use your school log-in details.

Use this space to keep track of your Sparx XP-level:

XP level

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e segments, angle facts, calculate, triangle, angles at a point, angles in a triang on, tessellation, measure, construct, sketch is nce between quantitative and qualitative data	U322
t	ebraic, order of operations, operation, evaluate, BODMAS, BIDMAS, number maplify les around a point add to 360°″ les on a straight line add to 180°″ les in a triangle add to 180°″ tically opposite angles are equal″ ssellates to draw any angle (including reflex) gle given two sides and the angle between them

ſ	Number	Algebra	Geometry	Data	Revision	Total	
	/	/	/	/	/	1	

		Objectives Term 2 Spring	Sparx
		Multiply a 3 digit by a 2 digit number	U127
		Multiply a decimal by a whole number in my head	U293
		Divide a 3 digit by a 2 digit number	U453
7		Divide a short decimal by a whole number in my head	U868
BNum2		Round a number to the nearest 10, 100, 1000, million	U480
Š		Round a number to 1 or 2 decimal places	U298
_		Use rounding to work out a rough answer	U225
	m	nultiplication, division, round, power of 10, decimal place, estimate, integer	
		Make equivalent equations	
		Explain the idea of balancing equations	
BAIg2		Solve equations with two operations, eg $2x + 5 = 11$	U755
BA		Solve equations with x on both sides, eg $4x - 2 = 3x - 1$	U870
	u	nwrapping, inverse operation, balancing, equals, brackets	
		Work out missing lengths on shapes made up of rectangles	
		Work out the area and perimeter of shapes made up of rectangles	U993, U351 U970
		Work out the area of a parallelogram	U424
BGeom2		Work out the area of a triangle	U945
9		Work out the area of a trapezium	U265
B		Work out the area of compound shapes (made up of rectangles, triangles, parallelograms and trapeziums)	U575
		rea, square centimetre (etc), perimeter, length, centimetre (etc), rectangle, compound shape, triangle, apezium, base, height, parallel sides	parallelogram,
		Find the mean	U291
		Find the mode and modal group	U260
7		Find the median for an even number of data values	U456
ata		Use the averages and range to compare two sets of data	
BData2		Decide which average is most useful	
		Work out the data values if I'm told the mode, median, mean and range	U717

Number	Algebra	Geometry	Data	Revision	Total
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	Objectives Term 3 Summer	Sparx
	Write decimals as fractions eg 0.23, 0.05	U888 U550
	Convert from percentages to fractions	M264
n3	Change between improper fractions and mixed numbers	M601
BNum3	Place (both improper and mixed) fractions greater than 1 on a number line	
B	Compare and order fractions greater than 1	M335
	fraction, denominator, numerator, equivalent, common denominator, terminating decima	ıl .
	Describe how to get the next term in a sequence	M381
	Write a sequence if I'm told the first term and the pattern	
	Recognise which times table a sequence comes from	
	Write the 10 th , 100 th term of a sequence if I'm given the rule	
ű,	Begin to link sequences to points plotted on a graph which follow a pattern	
BAlg3	Recognise the variable and constant parts of a physical sequence	M241
Ω	Draw and interpret graphs of real life or physical situations	M771, M843
	Write one number as a fraction/decimal of another, eg 4 is $\frac{1}{3}$ of 12	M885
m	Find equivalent ratios	M885
BRatio3	Split an amount in a ratio	M525
3Ra	Understand the difference between ratio (part-to-part) and proportion (part-to-	-whole)
_	Convert between ratios and fractions	
	proportion, equivalent ratio, simplest form	
	Know the vocabulary of 3D shapes (face, vertex, vertices, edges)	M767
	Sketch the net for any 3-D shape	M518
33	Create or sketch a 3D shape from a net	
BGeom3	Draw the plan, front and side elevation for a 3-D shape,	M229
ğ	Make a 3D shape from the plan, front and side elevations	841
	face, vertex, vertices, edge, 2D shape, 3D solid, prism, cuboid, tetrahedron, net, cube sketch front view, side view, elevations, sketch	ch, isometric, view, plan view,
	Say which situations have equally likely outcomes	
	Use the probability scale from 0 to 1 and place events on it	M941, M938
ლ	Write the probability of an event as a fraction	M941, M938
BData3	Estimate probability from an experiment	M332
BD	Compare expected results with an experiment	M206
	event, probability, impossible, certain, likely, unlikely, even chance, 50-50, equally likely, p random, possible, outcome, experiment, frequency table, theoretical probability, experiment	

Number	Algebra	Ratio	Geometry	Data	Total
/	/	/	/	/	1