	Autumn 2021	PRIOR KNOWLEDGE	GRADE	datio	OBJECTIVES	1 0
5	UNIT / LESSON	PRIOR KNOWLEDGE		TO	OBJECTIVES	Corbett
	9 Graphs	Plot coordinates and read scales	1	5		
C Com	0.1.Coordinatos	Substitute into a formula. Halve a number.	2	2	Find the midpoint of a line segment.	100
ь-зер	9.1 Coordinates	Substitute into an equation, and solve for an unknown.	2	3	Recognise, name and plot straight-line graphs parallel to the axes.	198
13-Sep	9.2 Linear graphs	Use a function machine.	2	3	Generate and plot coordinates from a rule.	
		Read scales			Plot straight-line graphs from tables of values.	186/187
20 6	0.2 Cradient	Understand that parallel lines will never meet.	1		Draw graphs to represent relationships. Find the gradient of a line.	100
20-Sep	9.3 Gradient	Identify which line is steepest.	1	4	Identify and interpret the gradient from an equation.	189
					Understand that parallel lines have the same gradient.	196
	9.4 y = mx + c	Understand that in a linear equation, the coefficient of x	4	4	Understand what m and c represent in $y = mx + c$.	
		is the gradient. Understand that parallel lines have the same gradient.			Find the equations of straight-line graphs.	191/194
		Understand that paraller lines have the same gradient.				
27-Sep		Draw a line with a given gradient.			Sketch graphs given the values of m and c.	
	9.5 Real-life graphs	Interpret scales. Draw a graph of an equation in the form	2	4	Draw and interpret graphs from real data.	151
		y = mx + c.				
	9.6 Distance-time graphs	Understand and use the relationship between distance,	3	5	Use distance-time graphs to solve problems.	171
		average speed and time.			Draw distance-time graphs.	1/1
					Interpret rate of change graphs.	
	9.7 More real-life graphs	Interpret a distance-time graph.			Draw and interpret a range of graphs.	
		Recall the definitions of positive, negative and no correlation.			Understand when predictions are reliable.	
		Find the equation of a line.				
	10 Transformations		2	4		
		Recall basic shapes.				
		Be able to plot points in all four quadrants.				<u> </u>
		Understand the concept of rotation. Reflect a shape in a mirror line.				
		Translate a shape on a squared grid using instructions				
		such as left/right and up/down.				
		Draw and recognise lines parallel to axes and $y = x, y = -x$.				
		Understand the terms 'clockwise' and 'anticlockwise'.				
4 Oct	10.1 Translation	Use the words left and right		4	Translate a shape on a coordinate grid.	225/226
4-0ct	t 10.1 Translation	List the four types of transformations	4	4	Use a column vector to describe a translation.	325/326
		Describe translations using left/right and up/down.				
						<u> </u>
	10.2 Reflection	Define the word perpendicular Reflect a shape in a mirror line.	2	4	Draw a reflection of a shape in a mirror line. Draw reflections on a coordinate grid.	272 273
		Reflect a shape in a min of fine.			Describe reflections on a coordinate grid.	273
	10.3 Rotation	Know the number of degrees in fractions of a turn.	3	4	Rotate a shape on a coordinate grid.	
11-Oct	:					275
	1	Use the words clockwise and anticlockwise.			Describe a rotation.	
	10.4 Enlargement	Find scale factor from object to image and from image	3	3	Enlarge a shape by a scale factor.	<u> </u>
		to object.			Follows a characterized a contra of colonizations	104/105
	10.5 Describing enlargements	Recognise the properties of enlargements.	3	3	Enlarge a shape using a centre of enlargement. Identify the scale factor of an enlargement.	106/109
	10.5 Describing enlargements	Simplify fractions.	5	5	Find the centre of enlargement.	100/109
					Describe an enlargement.	
	10.6 Combining transformations	State key information for describing transformations.	4	4	Transform shapes using more than one transformation.	
18-Oct	<u>.</u>					Transformat
TERM		Identify the type of transformation used.			Describe combined transformations of shapes on a grid.	_
TERIVI	11 Ratio and proportion		2	5		8
		Know the four operations of number.	2			
		Have a basic understanding of fractions as being 'parts				
		of a whole'. Find the scale factor of an enlargement				<u> </u>
		Find the scale factor of an enlargement. Draw a line graph from a table of values.				<u> </u>
1-Nov	/ 11.1 Writing ratios	Multiply and divide whole numbers.	2	3	Use ratio notation.	8
1,000		Interpret bar charts.	-		Write a ratio in its simplest form.	269
					Solve problems using ratios.	
	11.2 Using ratios 1	Know and use metric conversions.	2	3	Solve simple problems using ratios.	269
		Find the HCF of a pair of numbers.				
	11.3 Ratios and measures	Convert units of weight, length, capacity and time.	2	4	Use ratios to convert between units.	+
8-Nov			_	-		269
		Use index notation.			Write and use ratios for shapes and their enlargements.	
		Work out areas of recangles and volumes of cubes.				
	/ 11.4 Using ratios 2	Write ratios using correct notation.	3	5	Divide a quantity into 2 parts in a given ratio.	270
15-Nov	_	Round to a specified degree of accuracy.			Divide a quantity into 3 parts in a given ratio.	
15-Nov		Write a ratio in its simplest form.			Solve word problems using ratios.	271
		Interpret ratios.	3	4	Use ratios involving decimals.	
	11.5 Comparing using ratios	INATURE E WEAT 1 19 1 1 1 1 1			Compare ratios.	271
	11.5 Comparing using ratios	Write a ratio in its simplest form.	1	3	Solve ratio and proportion problems. Use the unitary method to solve proportion problems.	271
			2		ose the unitary method to solve proportion problems.	255a/256
	11.6 Using proportion	Write a ratio in its simplest form. Understand and use place value to order decimals.	3	5		2350/250
22-Nov	11.6 Using proportion		3	5	Solve proportion problems in words.	2554/256
22-Nov 29-Nov	, 11.6 Using proportion	Understand and use place value to order decimals. Write a ratio in the form 1 : n.			Work out which product is better value for money.	
22-Nov 29-Nov	11.6 Using proportion	Understand and use place value to order decimals. Write a ratio in the form 1 : n. Understand and use y = mx + c.	3	4	Work out which product is better value for money. Recognise and use direct proportion on a graph.	
22-Nov 29-Nov	, 11.6 Using proportion	Understand and use place value to order decimals. Write a ratio in the form 1 : n. Understand and use y = mx + c. Use conversion graphs.			Work out which product is better value for money.	
22-Nov 29-Nov 6-Dec	11.6 Using proportion 11.7 Proportion and graphs	Understand and use place value to order decimals. Write a ratio in the form 1 : n. Understand and use y = mx + c. Use conversion graphs. Plot a line graph from a table of values.			Work out which product is better value for money. Recognise and use direct proportion on a graph. Understand the link between the unit ratio and the gradient.	
22-Nov 29-Nov 6-Dec	, 11.6 Using proportion	Understand and use place value to order decimals. Write a ratio in the form 1 : n. Understand and use y = mx + c. Use conversion graphs.			Work out which product is better value for money. Recognise and use direct proportion on a graph.	

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