DATES	Summer 2021	PRIOR KNOWLEDGE	Highe	GRADE	OBJECTIVES
			FROM	TO	OBJECHTVES
	6 Graphs	I dentify according to a figure acting to the first	3	7	
		Identify coordinates of given points in the first quadrant or all four quadrants.			
		Write the equation for a straight line graph.			
		Use and draw conversion graphs.			
		Use function machines and inverse operations.			
		Use compound units, such a speed.			
19/04/2021	6.1 Linear graphs	Identify positive and negative gradients and	3	5	Find the gradient and y-intercept from a linear equation.
19/04/2021		intercepts from graphs. Rearrange equations.			Rearrange an equation into the form $y = mx + c$.
					Compare two graphs from their equations.
					Plot graphs with equations ax + by = c .
	6.2 More linear graphs	Identify lines with the same gradient or y-intercept	4	5	Sketch graphs using the gradient and intercepts.
		from their equations.	1		sketch graphs using the gradient and intercepts.
		Write the equation of a line from a graph.			Find the equation of a line, given its gradient and one point on the
					line. Find the gradient of a line through two points.
26/04/2021	C 2 Craphing rates of shange	Find speed from given distance and time.	3	7	Draw and interpret distance–time graphs.
20/04/2021	6.3 Graphing rates of change	Find the area of triangles and rectangles.	3	· /	Calculate average speed from a distance–time graph.
					Understand velocity–time graphs.
					Find acceleration and distance from velocity-time graphs.
	6.4 Real-life graphs	Write the equation of a line from a sketch graph.	3	5	Draw and interpret real-life linear graphs.
	0.4 Real-life graphs	while the equation of a line norm a sketch graph.	5	5	braw and interpret rear ine incar graphs.
		Plot a graph using values given in a table.			Recognise direct proportion.
					Draw and use a line of best fit.
	6.5 Line segments	Identify parallel and perpendicular lines	3	7	Find the coordinates of the midpoint of a line segment.
		Know properties of gradients of parallel lines.			Find the gradient and length of a line segment.
		Identify the gradient and intercept from an equation			Find the equations of lines parallel or perpendicular to a given line.
02/05/2023	6 6 Quadratic grante	in the form y = mx + c. Identify quadratic expressions.		-	Draw quadratic graphs
03/05/2021	6.6 Quadratic graphs	Identify quadratic expressions. Write the equation of a line from a graph.	4	7	Draw quadratic graphs.
		white the equation of a line from a graph.			Solve quadratic equations using graphs. Identify the line of symmetry of a quadratic graph.
					Interpret quadratic graphs relating to real-life situations.
	6.7 Cubic and regimeraal grach-	Know the shape of linear and quadratic graphs.	5	7	Draw graphs of cubic functions.
10/05/2021	6.7 Cubic and reciprocal graphs	and quadratic graphs.		'	Brand Braphs of cubic functions.
10/03/2021			1		Solve cubic equations using graphs.
					Draw graphs of reciprocal functions.
					Recognise a graph from its shape.
	6.8 More graphs	Match the shape of a container to the graph of	4	6	Interpret linear and non-linear real-life graphs.
		depth of water against time.			
		Read values from graphs.			Draw the graph of a circle.
	7 Area and volume		3	9	
		Know the names and properties of 3D shapes.			
		Know the concept of perimeter and area by measuring lengths of sides.			
		Substitute numbers into an equation and give			
		answers to an appropriate degree of accuracy.			
		Know the various metric units.			
		Identify planes of symmetry of 3D solids.			
		Sketch a net of a 3D shape.			
		Work out the volume of a 3D solid made of cuboids.			
		Recall Pythagoras' theorem.			
	7.1 Perimeter and area	Recognising units of length (perimeter) and area.	3	3	Find the perimeter and area of compound shapes.
17/05/2021					
		Work out the area and perimeter of rectangles,			Recall and use the formula for the area of a trapezium.
	L	triangles and parallelograms. Recall the formulae for the area of quadrilaterals	3	-	Convert between metric units of area.
	7.2 Units and accuracy	income the roundide for the area of uudui lidleidis	-	1 /	
	7.2 Units and accuracy		_		
	7.2 Units and accuracy	and triangles. Identify the possible integer values of from an inequality.	_		
	7.2 Units and accuracy	and triangles. Identify the possible integer values of >	_		Calculate the maximum and minimum possible values of a
	7.2 Units and accuracy	and triangles. Identify the possible integer values of a from an inequality. Round numbers to a specified degree of accuracy.	_		Calculate the maximum and minimum possible values of a measurement.
		and triangles. Identify the possible integer values of from an inequality. Round numbers to a specified degree of accuracy. Work out percentages of quantities.	ĸ	6	measurement.
24/05/2021	7.3 Prisms	and triangles. Identify the possible integer values of a from an inequality. Round numbers to a specified degree of accuracy.	_	6	
24/05/2021	7.3 Prisms	and triangles. Identify the possible integer values of from an inequality. Round numbers to a specified degree of accuracy. Work out percentages of quantities.	4	6	measurement.
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IALF TERM	7.3 Prisms	and triangles. Identify the possible integer values of a from an inequality. Round numbers to a specified degree of accuracy. Work out percentages of quantities. Calculate the volume and surface area of a cuboid. Calculate the volume of a shape made from cuboids.	4		measurement. Convert between metric units of volume. Calculate volumes and surface areas of prisms.
HALF TERM	7.3 Prisms	and triangles. Identify the possible integer values of a from an inequality. Round numbers to a specified degree of accuracy. Work out percentages of quantities. Calculate the volume and surface area of a cuboid. Calculate the volume of a shape made from cuboids. Understand 'radius' and 'diameter'.	4	6	measurement. Convert between metric units of volume. Calculate volumes and surface areas of prisms. Calculate the area and circumference of a circle.
HALF TERM	7.3 Prisms 7.4 Circles	and triangles. Identify the possible integer values of a from an inequality. Round numbers to a specified degree of accuracy. Work out percentages of quantities. Calculate the volume and surface area of a cuboid. Calculate the volume of a shape made from cuboids. Understand 'radius' and 'diameter'. Solve and rearrange simple equations.	4	5	measurement. Convert between metric units of volume. Calculate volumes and surface areas of prisms. Calculate the area and circumference of a circle. Calculate area and circumference in terms of π.
IALF TERM	7.3 Prisms	and triangles. Identify the possible integer values of a from an inequality. Round numbers to a specified degree of accuracy. Work out percentages of quantities. Calculate the volume and surface area of a cuboid. Calculate the volume of a shape made from cuboids. Understand 'radius' and 'diameter'.	4		measurement. Convert between metric units of volume. Calculate volumes and surface areas of prisms. Calculate the area and circumference of a circle.
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		Know whether the image is congruent to the original following a reflection or a rotation.			Rotate a 2D shape about a centre of rotation.	274,275
					Describe refl ections and rotations.	
28/06/2021 05/07/2021	8.3 Enlargement	Enlarge shapes on a coordinate grid in one quadrant.	3	7	Enlarge shapes by fractional and negative scale factors about a centre of enlargement.	107,108
	8.4 Transformations and combinations of transformations	Describe translations.	4	5	Translate a shape using a vector.	326
					Carry out and describe combinations of transformations.	
	8.5 Bearings and scale drawings	Convert metric measures and apply to scales.	3	4	Draw and use scales on maps and scale drawings.	283,284
		Accurate drawing of right-angled triangle.			Solve problems involving bearings.	26
12/07/2021	8.6 Constructions 1	Accurate drawings of triangles given SSS and ASA.	3	4	Construct triangles using a ruler and compasses.	81,82,83
		Know the meaning of the terms perpendicular, bisect, arc.			Construct the perpendicular bisector of a line.	78
		~~~~~			Construct the shortest distance from a point to a line using a ruler and compasses.	79
	8.7 Constructions 2	Draw angles with a protractor.	4	5	Bisect an angle using a ruler and compasses.	72
		Construct triangles and deduce infomration from them.			Construct angles using a ruler and compasses.	68,69,70,71
					Construct shapes made from triangles using a ruler and compasses.	
19/07/2021	8.8 Loci		4	7	Draw a locus.	75,76,77
					Use loci to solve problems.	
D OF TERM	3 TEST	1				