

YEAR 10 Autumn 2020		Foundation			0
DATES	UNIT / LESSON	PRIOR KNOWLEDGE	GRADE FROM ...	GRADE TO ...	OBJECTIVES
Begin with 4/5 weeks to recap work from last year as required, with particular emphasis on the summer term topics					
05/10/2020	week to include TEST				
	<b>9 Graphs</b>	Plot coordinates and read scales Substitute into a formula.	<b>1</b>	<b>5</b>	
12/10/2020	9.1 Coordinates	Halve a number. Substitute into an equation, and solve for an unknown.	<b>2</b>	<b>3</b>	Find the midpoint of a line segment. Recognise, name and plot straight-line graphs parallel to the axes. 198
19/10/2020	9.2 Linear graphs	Use a function machine. Read scales	<b>2</b>	<b>3</b>	Generate and plot coordinates from a rule. Plot straight-line graphs from tables of values. Draw graphs to represent relationships. 186/187
HALF TERM					
02/11/2020	9.3 Gradient	Understand that parallel lines will never meet. Identify which line is steepest.	<b>1</b>	<b>4</b>	Find the gradient of a line. Identify and interpret the gradient from an equation. Understand that parallel lines have the same gradient. 189
	9.4 $y = mx + c$	Understand that in a linear equation, the coefficient of $x$ is the gradient. Understand that parallel lines have the same gradient. Draw a line with a given gradient.	<b>4</b>	<b>4</b>	Understand what $m$ and $c$ represent in $y = mx + c$ . Find the equations of straight-line graphs. Sketch graphs given the values of $m$ and $c$ . 196 191/194
09/11/2020	9.5 Real-life graphs	Interpret scales. Draw a graph of an equation in the form $y = mx + c$ .	<b>2</b>	<b>4</b>	Draw and interpret graphs from real data. 151
	9.6 Distance-time graphs	Understand and use the relationship between distance, average speed and time.	<b>3</b>	<b>5</b>	Use distance-time graphs to solve problems. Draw distance-time graphs. Interpret rate of change graphs. 171
	9.7 More real-life graphs	Interpret a distance-time graph. Recall the definitions of positive, negative and no correlation. Find the equation of a line.			Draw and interpret a range of graphs. Understand when predictions are reliable.
	<b>10 Transformations</b>	Recall basic shapes. Be able to plot points in all four quadrants. 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'.	<b>2</b>	<b>4</b>	
16/11/2020	10.1 Translation	Use the words left and right List the four types of transformations Describe translations using left/right and up/down.	<b>4</b>	<b>4</b>	Translate a shape on a coordinate grid. Use a column vector to describe a translation. 325/326
23/11/2020	10.2 Reflection	Define the word perpendicular Reflect a shape in a mirror line.	<b>2</b>	<b>4</b>	Draw a reflection of a shape in a mirror line. Draw reflections on a coordinate grid. Describe reflections on a coordinate grid. 272 273 274
30/11/2020	10.3 Rotation	Know the number of degrees in fractions of a turn. Use the words clockwise and anticlockwise.	<b>3</b>	<b>4</b>	Rotate a shape on a coordinate grid. Describe a rotation. 275
07/12/2020	10.4 Enlargement	Find scale factor from object to image and from image to object.	<b>3</b>	<b>3</b>	Enlarge a shape by a scale factor. Enlarge a shape using a centre of enlargement. 104/105
	10.5 Describing enlargements	Recognise the properties of enlargements. Simplify fractions.	<b>3</b>	<b>3</b>	Identify the scale factor of an enlargement. Find the centre of enlargement. Describe an enlargement. 106/109
14/12/2020	10.6 Combining transformations	State key information for describing transformations. Identify the type of transformation used.	<b>4</b>	<b>4</b>	Transform shapes using more than one transformation. Describe combined transformations of shapes on a grid. Transformations - mixt

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