Abbot Beyne School



Student case study

Maths Student case study

This is the journey of a year 9 SEND student using an iPad to support learning of linear graphs.

Click to watch video

The student initially had difficulties in calculating a gradient.

<u>September</u>

Explore task using graphing software on iPads to investigate the effects of the gradient and y-intercept on a graph.



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<u>October</u>

Activate task revisiting gradients in an applied context.

Caleb built the large LEGO set. How much do you think the large LEGO set cost?	
How much do you think the large LEGO set cost?	
108.98	Ó
✓ Edit my res	sponse
\$5.49 ??? Three other students' responses would show up here.	

<u>October</u>

Topic assessment. The student has shown great progress in being able to communicate using standard notation.

951 - Maths - Mi	Yoor 9	Ruse Moths	Complete the table of values for $y = 3x$	+ 2	
lue October 22, 2020	Teal 7	11	x -2 -1 0 1 2	(2	
Homework - Hegarty Maths	Straight Line Graphs	only ind	y 4 1 2 5 8	2 marks	
iue October 22, 2020	Name	- Serfapete	On the grid, draw the graph of y = 3x + for values of x from -2 to 2	2	
Classwork - Assessment	1 Two straight lines l_1 and l_2 are shown on the grid.		8.9		
october 16, 2020			6		
Classwork - Revision of Straight	- 4		4		
	2		2		
Homework - Hegarty Maths lue October 15, 2020	1		-3 -2 -1 1 2 3 ^x		
	-5 -4 -8 -2 -1 1 2 3 4 5 [^]		• .1 .2	/ 🗖	
Llasswork - Testing conjecture: lue October 8, 2020	-2		-3	2 marks	
		•	Write down the gradient of each line seg	ment.	
lue October 8, 2020	Write down the coordinates of the point where l		N		
Classwork Pearsonaing equat	and l_2 meet.				
lue October 2, 2020	(-3,2) Write down the equations of the lines.	I mark			
lasswork - Inequalities and su	L X =-3 / L Has	(2	Internet And		
lue October 1, 2020	·1 ·2	2 marks	on-1 -1	2 marks	

<u>February</u>

<u>November</u>

Apply session during Maths Week England.

The class were given a brief to use graphing software to create some artwork.

The student created a picture of a house using linear equations, linear inequalities and limits. The student then started a picture using quadratic inequalities.



An independent discovery of how to create a colour gradient effect.



<u>February - May</u> Independently the student has continued to work these projects.



Click to watch video



For this student, the iPad has been a major factor in their progress in maths.

Showbie is an excellent tool in meeting the student's SEN needs as it allows the work to be streamlined and unlocked a task at a time reducing cognitive load, stress and anxiety.

The student can feel anxious and overwhelmed during lesson time and will often be unable to speak when asked a question or in front of peers. The iPad is a channel of communication which has been been essential for the student to communicate their needs when they cannot do so physically. This allows for immediate action from the teacher and has opened up accessibility to group work and communication with peers.