Date (week commencing)	Numbers to learn
05/09/21	1.1 – 1.2 & 2.1 – 2.8
12/09/21	2.1-2.7 & 3.1-3.3
19/09/21	1.1 – 1.2 3.1 – 3.3 4.1 – 4.5
26/09/21	4.1 – 4.8 2.1 – 2.6
03/10/21	1.1 – 3.3
10/10/21	2.7 – 4.8
17/10/21	1.1 – 4.8

Learning means…

I am using look >> cover >> write >> check at least twice for this week's facts

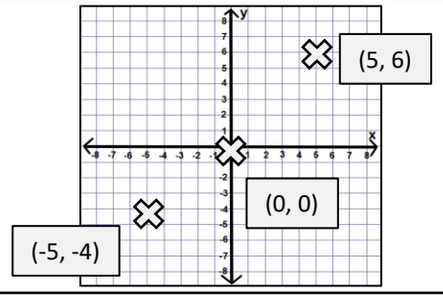
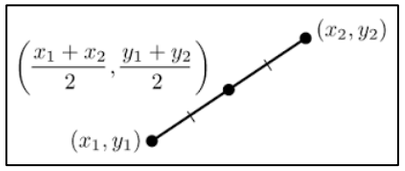
and/or

I made flash cards ("Question" on one side and "Answer" on the other) for the facts and got someone to test me on them at least twice

so that…

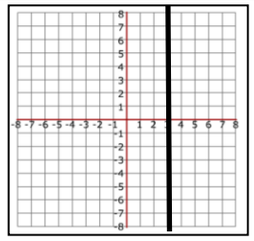
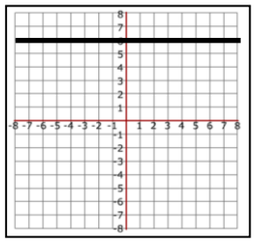
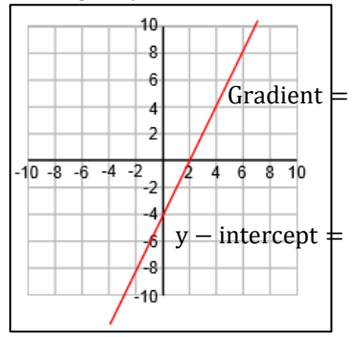
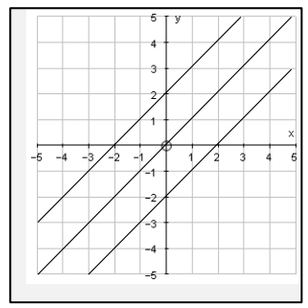
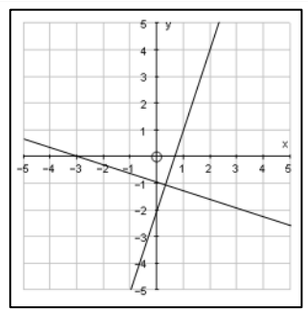
I achieve the minimum score of 8/10 on the quiz

Year 9 – Maths – Autumn 1

Unit 1 - coordinates			
No.	**Question**	**Answer**	**Example**
1.1	Coordinates are always	(x, y)	
1.2	Midpoint	$(\frac{x_1+x_2}{2}, \frac{y+y_2}{2})$	

Unit 3 - proportion			
No.	**Question**	**Answer**	**Example**
3.1	Direct proportion	As one variable increases, the other variable increases	
3.2	Inverse proportion	As one variable increases, the other variable decreases	
3.3	The unitary method	Find one first	

Unit 4 – standard form			
No.	**Question**	**Answer**	**Example**
4.1	Standard form	A way of writing numbers in the form $a \times 10^n$ where a must be between 1 and 10 and n is an integer	4,000,000 is 4 x 10^6
4.2	10^{-3}	0.001	
4.3	10^{-2}	0.01	
4.4	10^{-1}	0.1	
4.5	10^0	1	
4.6	10^1	10	
4.7	10^2	100	
4.8	10^3	1000	

Unit 2 – y = mx + c			
No.	**Question**	**Answer**	**Example**
2.1	Vertical lines are always	x = n where all the x coordinates are the same	 x = 3
2.2	Horizontal lines are always	y = n where all the y coordinates are the same	 y = 6
2.3	m	Gradient	$Example: y = 2x - 4$
2.4	To find the gradient	$\frac{Difference\ in\ y}{Difference\ in\ x} = \frac{y_2 - y_1}{x_2 - x_1}$	
2.5	c	y - intercept	
2.6	To find the y–intercept	The y coordinate when x = 0 This is where the line crosses the y axis	
2.7	Parallel lines	Have the same gradient	 $y = x + 2$ $y = x$ $y = x - 2$
2.8	Perpendicular lines	$-\frac{1}{gradient}$	 $y = 3x + 2$ $y = -\frac{1}{3}x - 1$