## Autumn Term 1 Maths

What?	Lesson 1	Lesson 2	Lesson 3	Lesson 4		
When?	Learning intentions	Learning intentions	Learning intentions	Learning intentions		
	(what can a student do at the	(what can a student do at the end of	(what can a student do at the end of the	(what can a student do at the end of		
Why?	end of the lesson)	the lesson)	lesson)	the lesson)		
Week 1	Understand the meaning and	Understand and use ratio notation,	Solve problems involving ratios of the	Solve problems involving ratios of the		
Ratio and scale	representation of ratio	from diagrams and numerically	form 1:n or n:1, from diagrams,	form m:n, using a number of strategies		
			descriptions, and using bar modelling	including bar modelling		
Week 2 Ratio	Divide in a given ratio, using a	Express ratios in their simplest	Express ratios in the form 1:n from	Compare ratios and fractions using		
and scale	number of strategies including	integer form, from problems given	problems given both in diagrammatic	diagrams and descriptions		
	bar modelling	both in diagrammatic and numerical	and numerical form			
		form				
Week 3	Solve problems involving direct	Learn to use conversion graphs	Convert between currencies	Understand scale factors as		
Multiplicative	proportion	(explore direct proportion graphs for		multiplicative representations		
change		higher ability students)				
Week 4	Draw and interpret scale	Interpret maps using ratios and scale	Represent multiplication of fractions	Multiply a fraction by an integer		
Multiplicative	diagrams	factors				
change						
Multiplying and						
dividing						
fractions						
Week 5	Find the product of a pair of	Find the product of a pair of any	Divide an integer by a fraction	Divide a fraction by a unit fraction		
Multiplying and	unit fractions	fractions				
dividing						
fractions						
Week 6	Understand and use the	Divide any pair of fractions	Multiply and divide improper and mixed	Multiply and divide algebraic fractions		
Multiplying and	reciprocal		fractions			
dividing						
fractions		<b>.</b>				
Week /	Formative assessment	Follow up to assessment	Work with co-ordinates in all 4	Identify and draw lines parallel to the		
Formative			quadrants	axes		
assessment						
Working in the						
Cartesian plane	De altre					
Autumn Term 2 Matns						
What?	Lesson 1	Lesson 2	Lesson 3	Lesson 4		
When?	Learning intentions	Learning intentions	Learning intentions	Learning intentions		
	(what can a student do at	(what can a student do at the end	(what can a student do at the end of	(what can a student do at the end		
Why?	the end of the lesson)	of the lesson)	the lesson)	of the lesson)		

Week 1	Recognise and use the line v	Recognise and use lines of the	Link y = kx to direct proportion	Recognise and use lines of the form
Working in the	= x	form y = kx	problems (Explore the gradient of	y = x + a
Cartesian			the line y= kx for more able	
plane			students)	
Week 2	Explore graphs with negative	Link graphs to linear sequences	Plot graphs of the form y = mx + c	Find the midpoint of a line segment
Working in the	gradient (y = -kx, y = a – x, x		(Explore non-linear graphs for more	
Cartesian	+ y = a		able students)	
plane				
Week 3	Draw and interpret scatter	Understand and describe linear	Draw and use the line of best fit	Identify non-linear relationships
Representing	graphs	correlation		
data				
Week 4	Identify different types of	Read and interpret ungrouped	Read and interpret grouped	Represent grouped discrete data
Representing	data	frequency tables	frequency tables	
data				
Week 5	Represent continuous data	Construct and interpret two way	Construct sample spaces for one or	Find probabilities from a sample
Representing	grouped into equal classes	tables	more events	space
data				
Probability				
Week 6	Find probabilities from two	Find probabilities from Venn	Use the product rule for finding the	Review
Probability	way tables	diagrams	total number of possible outcomes	
Week 7	Review	Review	Assessment	Feedback