Autumn Term 1 Year 9 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	(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 the lesson)
Why?	the end of the lesson)	the lesson)	lesson)	
Week 1	Plot and recognise lines in	Complete and use a table of values to	Recognise that the coefficient of x in the	Interpret equations of a line in the form y=mx+c
	the form x=a, y=b, y=x and	plot a straight line graph	equation of a line tells us the gradient	
	y=-x			Identify the gradient and y-intercept from the
		Look for patterns in their tables of	Identify that the greater the gradient of a	equation of a line
	Understand the relationship	values	line, the steeper it is	
	between a pair of co-			Recognise that having the same gradient makes
	ordinates and a line		Recognise that the value of c is the y-	lines parallel
			intercept	
Week 2	Find the equation of a line	Use graphs showing real-life scenarios	Interpret real-life graphs involving inverse	Recognise perpendicular lines on a graph
	from a graph	to interpret gradient and intercepts	proportion	
				Recognise that the product of the gradients of a
		Apply real-world knowledge (y-		pair of perpendicular lines will always be -1
M(Intercept for minimum fare in a taxi)	Front and a sector of the second line and the second line is with	
week 3	Understand and use	Solve equations and inequalities with	Explore and understand inequalities with	Solve equations and inequalities with unknowns
		brackots	negative numbers	on both sides using the balance method
	Solve equations and	DIACKELS		
	inequalities with unknowns	Become familiar with solutions that		
	on one side	are not integers		
Week 4	Look at forming and solving	Explore the difference between	Explore the link between solving and	Explore formulae that include squaring and
Week	equations in mathematical	formulae and equations and substitute	rearranging formulae	square rooting and that have terms in brackets
	contexts eg. Angle rules and	numbers in formulae to produce		
	averages	equations to solve		
Week 5	Identify the difference	Identify whether given statements are	Use reasoning skills to establish whether a	Provide a formal demonstration of whether a
	between factors and	true or false	statement is sometimes, always or never	statement is true or not
	multiples		true	
				Verify algebraic identities
	Express a number as a			
	product of primes			
Week 6	Look at conjectures with	Expand a pair of binomials where all	Use and experiment with conjectures in	Use the 100 square to form expressions and
	sums and products of even	the terms are positive	algebra such as 2n always being even and	practise simplification
	and odd numbers and verify		2n+1 is always odd	
	using diagrams			
Week 7	REVIEW LESSON	REVIEW LESSON	PURPLE ASSESSMENT	FEEDBACK

Autumn Term 2							
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 of	(what can a student do at the end of the	(what can a student do at the end of the lesson)			
Why?	the end of the lesson)	the lesson)	lesson)				
Week 1	Know names of 2D and 3D	Recognise prisms (including language	Accurate nets of cuboids and other 3D	Sketch and recognise nets of cuboids and other			
	shapes	of edges and vertices)	shapes	3D shapes			
Week 2	Plans and elevations	Find area of 2D shapes (R)	Surface area of cubes and cuboids	Surface area of triangular prisms			
Week 3	Surface area of a cylinder	Volume of cubes and cuboids	Volume of other 3D shapes - prisms and cylinders	Explore volumes of cones, pyramids and spheres (H)			
Week 4	Draw and measure angles (R)	Construct and interpret scale drawings (R)	Locus of distance from a point	Locus of distance from a straight line			
Week 5	Locus equidistant from two points	Construct a perpendicular bisector	Construct a perpendicular from a point	Construct a perpendicular to a point			
Week 6	Locus of distance from two lines	Construct an angle bisector	Construct triangles from given information (R)	Identify congruent figures			
Week 7	Explore congruent triangles	Identify congruent triangles	Purple Assessment	Feedback			