Y11 Strand	PLC
	1. Equations of lines parallel to the axis
	2. Plot straight line graphs
	3. Interpret y=mc+c
	4. Find the equations of a straight line from a graph
Gradients and	5. Equation of a straight line graph given one point and a gradient
Lines	6. Equation of a straight line graph given two points
	7. Determine whether a point is on a line
	8. Solve linear simultaneouys equations graphically
	9. (H) Explore perpendicular lines
	10. (H) Find the equations of perpendicular lines
	1. Plot and read from quadratics graphs
	2. Plot and read from cubic graphs
	3. Plot and read from reciprocal graphs
Non-lineau Cumha	4. Recognise graph shapes
Non- Linear Graphs	5. Identify and interpret roots and intercepts of quadratics
	6. (H) Understand and use exponential graphs
	7. (H) Find and use the equation of a circle centre 0
	8. (H) Find the equation of the tangent to any curve
	1. Reflect shapes in given lines
	2. Construct and interpret conversion graphs
	3. Construct and interpret other real-life straight line graphs
	4. Interpret distance/time graphs
Using symptot	5. Construct distance/time graphs
Using graphs	6. Construct and iterpret speed/time graphs
	7. Construct and interpret piece-wise graphs
	8. Recognise and interpret graphs that illiustrate direct and inverse proportion
	9. Find approximate solutions to equations using graphs
	10. (H) Estimate the area under a curve
	1. Expand and factorise with a single bracket

	2. Expand binomials
	3. Factorise quadratic expressions
	4. (H) Factorise complex quadratic expressions
Expanding and Factorising	5. Solve equations equal to 0
	6. Solve quafratic equations by factorisation
	7. (H) Solve complex quadratic equations by factorisation
	8. (H) Complete the square
	9. (H) Solve quadratic equations using the quadratic formula
	1. Solve linear equations
	2. Solve inequalities
	3. Form and solve equations and inequalities in the context of shape
Changing the	4. Change the subject of a simple formula
subject	5. Change the subject of a known formula
	6. Change the subject of a complex formula
	7. (H) Change the subject where the subject appears more than once
	8. (H) Solve equations by iteration
	1. Use function machines
	2. Substitute into expressions and formulae
	3. Use function notation
Functions	4. (H) Work with composite functions
Tonchons	5. (H) Work with inverse functions
	6. Graphs of quadratic functions
	7. (H) Solve quadratic inequalities
	8. Understand and use trig functions
	1. Use scale factors
	2. Understand direct proportion
	3. (H) Construct complex direct proportion equations
Multiplicative reasoning	4. Calculate with pressure and density
	5. Understand inverse rpoportion
	6. (H) Construct inverse proportion equation

	7. Ratio problems
	1. Angles at a point
	2. Angles in a prallel lines and shapes
	3. Exterior and interior angles in polygons
	4. Proving geometric facts
	5. Solve problems involving vectors
Geometric reasoning	6. (H) Review of circle theorems
	7. (H) Circle theorem - anlge between radius and chord
	8. (H) Circle theorem - angle between radius and a tangent
	9. (H) Circle theorem - two tangents from a point
	10. (H) Circle theorem - alternate segment theorem
	11. Pythagoras' theorem and trig ratios
	1. Perfomr and descirbe line symmetry and reflection
	2. Perform and descirbe rotation and rotational symmetry
	3. Perform and descirbe translations of shapes
	4. Perform and describe enlargements of shapes
Transforming and	5. (H) Perform and describe negative enlargements of shapes
constructing	6. (H) Identify invariant points and lines
	7. Perform standard constructions using ruler and protractor or ruler and compasses
	8. Solve loci problems
	9. (H) Understand and use trig graphs
	10. (H) Sketch and identify tranlatiosn of the graph of a given function
	1. Work with organised lists
	2. (H) Use the product rule for counting
Listing and describing	3. Sample spaces and probability
	4. Complete and use Venn diagrams
	5. Construct and interpret plans and elevations
	6. Use data to compare distributions
	7. Interpreting scatter graphs
	1. Show that with number

2. Show that with algebra   3. Show that with shape   4. Show that with angles   5. Show that with data	2. Show that with algebra
	3. Show that with shape
	4. Show that with angles
	5. Show that with data
	6. (H) Show that with vectors
	7. Show that with congruent triangles
	8. (H) Form proof with congruent triangles

· · · · · · · · · · · · · · · · · · ·			
1		1	

· · · · · · · · · · · · · · · · · · ·			
1		1	