Year 11	
Circle properties	Angle in semi-circle. Angle at the centre. Angles at the circumference. Cyclic quadrilaterals. Tangent to a circle. Alternate segment theorem. Proof of circle properties.
Test 1	
Solving equations graphically	Solving equations graphically (interpreting roots).
Measuring - upper and lower bounds	Truncation. Finding upper and lower bounds. Write as an inequality. Calculations with upper/lower bounds.
	Rounding to an appropriate degree of accuracy.
Percentages	Finding percentage decrease/increase/change.
Test 2	
Volume and surface area	Prisms and units of area/volume. Volumes of spheres, pyramids and cones. Surface areas of cylinders, spheres and cones.
Similar shapes	Finding lengths, areas and volumes of similar shapes by considering the associated scale factors
Test 3	
Vectors	Basic concepts. Magnitude. Equal vectors. Multiplying by a scalar. Adding/subtracting vectors. Vector geometry.
Trigonometry 3	sin, cos, tan for 30, 45, 60. Mixed problems involving trigonometry. Trigonometry for angles of any size.
	Solving equations involving sin, cos or tan.
Transformation of functions	Translations and reflections of functions which includes sketching $y=f(x)+k$ , $y=f(x-k)$ , $y=-f(x)$ , and $y=f(-x)$ from the graph of $y=f(x)$ for
	linear, quadratic, cubic, reciprocal, or trigonometric functions.
Proof	Algebraic proof.
Tangents to Circles	Finding the equation of a tangent to a circle.
Capture-recapture	Capture-recapture.
January mock	Content of exams to be advised each year
Revision	Revision of concepts taught in Years 7-11

- Assessment Procedure

  Autumn grade will be based on the Year 10 exam and Tests 1, 2 and 3
  - Spring grades will be based on the mock examination (Paper 1 = non-calc Paper 2/3 = calc)