.	What students need to learn:		
Iopics	Content		Guidance
5 Trigonometry	5.1	Understand and use the definitions of sine, cosine and tangent for all arguments; the sine and cosine rules; the area of a triangle in the form $\frac{1}{a}ab \sin C$	Use of x and y coordinates of points on the unit circle to give cosine and sine respectively, including the ambiguous case of the sine rule.
	5.2	2 Understand and use the sine, cosine and tangent functions; their graphs, symmetries and periodicity.	Knowledge of graphs of curves with equations such as $y = \sin x$, $y = \cos(x + 30^\circ)$, $y = \tan 2x$ is expected.
	5.3	Understand and use $\tan \theta = \frac{\sin \theta}{\cos \theta}$ Understand and use $\sin^2 \theta + \cos^2 \theta = 1$	These identities may be used to solve trigonometric equations or to prove further identities.
	5.4	Solve simple trigonometric equations in a given interval, including quadratic equations in sin, cos and tan and equations involving multiples of the unknown angle.	Students should be able to solve equations such as $sin(x + 70^\circ) = 0.5$ for $0 < x < 360^\circ$, $3 + 5 \cos 2x = 1$ for $-180^\circ < x < 180^\circ$ $6 \cos^2 x^\circ + \sin x^\circ - 5 = 0$, $0 \le x < 360^\circ$ giving their answers in degrees.