

Hillview College

Mathematics Scheme of Work | Form 4, 2019-2020

Term 1 | September 2nd to December 13th, 2019 | 15 weeks

	<i>Topic</i>	<i>Textbook reference</i>
1	Factorising [<i>revision of form 3 work</i>] - distributive law, HCF, algebraic fractions, quadratics, difference of two squares, perfect squares	Vol 1, pp. 243-248; Vol 2, pp. 772-799
2	Quadratics - solving quadratic equations by factorising, the quadratic formula and graphically - completing the square - sketching quadratic curves - solving simultaneous equations (one linear and one quadratic)	Vol 2, pp. 786-800, 832-835
3	Transpositions (changing subject of the formula)	Vol 2, pp.737-750
4	Functions	Vol 1, pp. 307-313; Vol 2, pp. 801-814
5	Sets	Vol 2, pp. 713-727

Term 2 | January 6th to April 3rd, 2020 | 13 weeks

	<i>Topic</i>	<i>Textbook reference</i>
1	Trigonometry - sine, cosine, tangent, Pythagoras's theorem - angles of elevation and depression - sine rule, cosine rule - area of a triangle = $\frac{1}{2}ab \sin C$ - bearings	Vol 2, pp. 983-1004, 1109, 968
2	Circle geometry - circumference, area, sectors, segments	
3	Statistics and probability	Vol 2, pp. 868-904

Term 3 | April 20th to July 3rd, 2020 | 11 weeks

	<i>Topic</i>	<i>Textbook reference</i>
1	Matrices	Vol 2, pp. 1011-1016, 1043-1046
2	Transformations	Vol 2, pp. 930-953

Note: SBA to be given in term 3

References:

1. Textbook: Mathematics A Complete Course With CXC Questions, Volumes 1 and 2
2. CXC CSEC Mathematics Syllabus

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Topics for form 5:

Vectors, Circle theorems, Linear programming, distance-time and velocity-distance graphs, symmetry, number patternsí review geometric constructions. Past papersí