Correlation Chart

Grade 11 Applied Mathematics (1999)	Applied Mathematics (2009)
Determine the following characteristics of a graph of a quadratic function: • Vertex • Domain and range • Axis of symmetry • Intercepts	 11A.R.2. Demonstrate an understanding of the characteristics of quadratic functions, including: vertex intercepts domain and range axis of symmetry. [CN, PS, T, V]
Use best-fit quadratic equations and their graphs to make predictions and solve problems (A-2)	 11A.R.2. Demonstrate an understanding of the characteristics of quadratic functions, including: vertex intercepts domain and range axis of symmetry. [CN, PS, T, V]
Solve non-linear equations using a graphing tool (A-3)	
Plot data of exponential form using appropriate scales (A-4)	
Use best-fit exponential equations and their graphs to make predictions and to	solve
problems (A-5)	
Solve consumer problems, including: Wages earned in various situations Property taxation Exchange rates Unit prices (B-1)	
Reconcile chequebooks with account statements (B-2)	
Solve systems of linear equations in two variables (C-1)	
Design and solve linear equations to model problem situations (C-2)	
Graph linear inequalities in one dimension, i.e., one variable (D-1)	
Graph linear inequalities in two variables (D-2)	11A.R.1. Model and solve problems that involve systems of linear inequalities in two variables.[CN, PS, T, V]
Solve systems of linear inequalities, in two variables, graphically, using technol	Ogy 11 A P 1 Model and solve problems that involve systems of linear inequalities in
when appropriate (D-3)	two variables. [CN, PS, T, V]
Apply linear programming to find optimal solutions to decision-making problems (D-4)	 I1A.R.1. Model and solve problems that involve systems of linear inequalities in two variables. [CN, PS, T, V]
Solve budget problems using graphs and tables to communicate solutions	
(E-1)	

Grade 11 Applied Mathematics (1999)	Applied Mathematics (2009)	
Solve investment and credit problems involving simple and compound interest (E-2)		
Plot and describe data of exponential form, using appropriate scales (E-3)		
Extract information from given graphs of discrete or continuous data using: Time series Glyphs Continuous data Contour lines (F-1) Draw and validate inferences including interpolations and extrapolations from graphical and tabular data		
Design different ways of presenting and analyzing results by focusing on the truthful display of data and the clarity of presentation (F-3)		
Calculate maximum and minimum values using tolerances for lengths, areas, and volumes (G-2)		
 Use technology to confirm the following properties of circles and polygons: The perpendicular from the centre of a circle to a chord bisects the chord The measure of the central angle is equal to twice the measure of the inscribed angle subtended by the same arc The inscribed angles subtended by the same arc are congruent The angle inscribed in a semicircle is a right angle The opposite angles of a cyclic quadrilateral are supplementary A tangent to a circle is perpendicular to the radius at the point of tangency The tangent segments to a circle, from any external point, are congruent The sum of the interior angles of an <i>n</i>-sided polygon is 180°(<i>n</i>-2) 		
(H-2)	11A.M.1. Solve problems that involve the application of rates.	
	 [CN, PS, R, T] 11A.M.2. Solve problems that involve scale diagrams, using proportional reasoning. [CN, PS, R, T, V] 11A.M.3. Demonstrate on understanding of the relationships emone costs for the relationships. 	
	areas, surface areas and volumes of similar 2-D shapes and 3-D objects. [C, CN, PS, R, T, V]	
	11A.G.1. Derive proofs that involve the properties of angles and triangles. [CN, R, T, V]	

Page 2 of 3 C: Communication R: Reasoning

CN: Connections T: Technology ME: Mental Mathematics and Estimation V: Visualization

DRAFT	Correlation Chart	July 2009
Grade 11 Applied Mathematics (1999)	Applied Mathematics (2009)	
	11A.G.2.Solve problems that involve the properties of angles and triangles.[CN, PS, T, V]	
Apply the sine and cosine laws, excluding the ambiguous case, to solve problems (I-3) Note: Ambiguous case not included here.	11A.G.3. Solve problems that involve the cosine la the ambiguous case.[CN, PS, R, T]	aw and the sine law, including
	11A.L.1. Analyze and prove conjectures, using ind to solve problems.[C. CN, PS, R, T]	ductive and deductive reasoning,
	11A.L.2. Analyze puzzles and games that involve problem-solving strategies.[CN, PS, R, T, V]	spatial reasoning, using
	 11A.S.1. Demonstrate an understanding of norma standard deviation z-scores. [CN, PS, T, V] 	l distribution, including:
	 11A.S.2. Interpret statistical data, using: confidence intervals confidence levels margin of error. [C, CN, R, T] 	
	 11A.RP.1. Research and give a presentation on a h interest that involves mathematics. [C. CN ME PS R. T. V] 	nistorical event or an area of