Tripoli Evangelical School

Secondary One Mathematics Curriculum

<u>Textbook</u>: Secondary Education 1st Year. Collection: Puissance. Al–Ahlia.

Chapter	Chapter Title	Periods
0	Revision (Factorization, Solving Equations, Powers)	3
1	Sets	8
	Definition, Subset, Complement of a subset, Intersection, Union, Parts of a set, Set of Numbers	
2	Absolute Value and Intervals	9
	Definition, Distance between 2 real numbers, Properties of the absolute value, Intervals, Real-World Applications (Supplementary Sheet)	
3	Powers and Radicals	6
	Powers having natural exponents, Powers having rational and irrational exponents, properties of powers, Square Root, n th Root	
5	Addition of Vectors	4
	Definition, Zero Vector, Unit Vector, Equal Vector, Opposite Vectors, Addition of vectors in 2 ways, Subtraction and Decomposition of Vectors	
6	Multiplication of a Vector By a Real Number	6
	Definition, Properties, Collinear Vectors, Midpoint of a Segment, Center of Gravity of a triangle, Writing Vectors as a linear combination of many vectors, Using Thales to prove Collinearity	
4	Order on R Rule of Signs, Order of Operations, Comparing Two Real Numbers, Framing of Real Numbers (Addition, Subtraction, Multiplication, Division, Amplitude)	5
7	Polynomials Definition, Null and Equal Polynomials, Numerical Value, Reducing and	7

	Ordering a Polynomial. Root of a Poly, Euclidean Division, Technique of	
	Factorization by (x-a) using the Identification Method	
10	Trigonometric Circle	4
	Units of more and Augles Deletion between Descrete and Dedient Length of an	
	Units of arcs and Angles, Relation between Degree and Radian, Length of an	
	Arc, Area of an Angular Sector, Trigonometric Circle, Principal	
	Determination, Measure of Oriented Arcs, Using the Calculator	
11	Trigonometric Lines	9
	Trig. Ratios in a Right Triangle and in a Scalene Triangle (Extra Sheet).	
	Trig. Lines. Signs of Trig. Ratios. Remarkable Arcs. Associated Arcs and	
	Angles	
9	Coordinate System	5
	Def. of Real Line Axis & Abscissa of a Point, Def. of a System of a Plane,	
	Coordinates of a Point & a Vector, Analytic Explanation of Vectors Faualities	
12	Scalar Product in a Plane	10
	Definition, Properties, Other Expressions of a Scalar Product, Applications	
	(Condition for Orthogonality, Distance from a Point to a Line, General	
	Relation of Pythagoras, Recognizing the Set of Points (Locus)	
13	Equations and Inequalities	6
	First Degree Equations in One Unknown (Numerical Coefficients	Ũ
	Parametric Coefficients) Fauations Changed to First Degrees Problem	
	Situations First Degree Inequalities in One Unknown Sign of $ax + b$	
	Absolute Value of First Degree Inequalities System of First Degree	
	Inequalities Problem Situations	
16	Equations of Straight Lines	10
10	Definition Director Vector of a Straight Line Parametric Representation	10
	Cartasian Rapresentation Reduced Form Parallelism Condition of 2	
	Straight Lines Intersection of Straight Lines Craphic Papersontation of a	
	Straight Lines, Intersection of Straight Lines, Graphic Representation of a	
15	Generalities about Functions	8
	Domain of Definition, Even/Off Function, Sense of Variation, Extremum,	
	$\mathcal{B}_{\text{restrict}}$	
	Representative Curve. Graphical Reading of a Function and its Table of	
	<i>Variations</i> Graphical Comparison of 2 Functions over an Interval	
	<i>Variations, Graphical Comparison of 2 Functions over an Interval,</i> <i>Graphical Resolution of Equations & Inequalities</i>	
18	Representative Curve, Graphical Reading of a Function and its Table of Variations, Graphical Comparison of 2 Functions over an Interval, Graphical Resolution of Equations & Inequalities Statistics	10
18	Representative Curve, Graphical Reading of a Function and its Table of Variations, Graphical Comparison of 2 Functions over an Interval, Graphical Resolution of Equations & Inequalities Statistics Statistics	10
18	Representative Curve, Graphical Relating of a Function and its Table of Variations, Graphical Comparison of 2 Functions over an Interval, Graphical Resolution of Equations & Inequalities Statistics Statistical Vocabulary, Calculation of Measures of Center (Mean, Median, Mode), Calculation of Spread (Barrow Variance, Standard)	10
18	Representative Curve, Graphical Relating of a Function and its Table of Variations, Graphical Comparison of 2 Functions over an Interval, Graphical Resolution of Equations & Inequalities Statistics Statistical Vocabulary, Calculation of Measures of Center (Mean, Median, Mode), Calculation of Measures of Spread (Range, Variance, Standard Divisition)	10

21	Counting Basic Rules, Determination of a Plane, Relative Positions of a Straight Line and a Plane, Relative Positions of 2 Planes, Intersection of a Line and a Plane, Section of a Solid Cut by a Plane	5
22	Straight Lines and Planes	3
	Parallel Straight Lines, Parallel Straight Line and a Plane, Parallel Planes, Projection on a Plane Parallel to a Given Direction	