MATHEMATICS	
P1	**Algebra**
01	Background Algebra
02	Linear Equations
03	Changing the Subject of a Formula
04	Quadratic Equations
05	Solving Quadratic Equation
06	Equations that cannot be Factorized
07	The Graph of Quadratic Function
08	The Quadratic Formula
09	Simultaneous Equations
10	Inequalities
P2	**Algebra**
11	Operations with Polynomials
12	Solution of Polynomial Equations
13	The Modulus Function
P3	**Algebra**
14	The General Binomial Expansion
15	Review of Algebraic Functions
16	Partial Fractions
17	Using Partial Fractions with The Binomial Expansion
P1	**Co-ordinate Geometry**
01	Co-ordinates
02	Plotting, Sketching and Drawing
03	The Gradient of a Line
04	The Distance Between two Points
05	The Mid-Point of a Line Joining two Points
06	The Equation of a Straight Line
07	Finding the Equation of a Line
08	The Intersection of two Lines
09	Drawing Curves
10	The Intersection of a Line and a Curve
P1	**Sequences and Series**
01	Definitions and Notation
02	Arithmetic Progressions
03	Geometric Progression
04	Binomial Expansions
P1	**Functions**
01	The Language of Functions
02	Composite Functions
03	Inverse Function
P1	**Differentiation**
01	The Gradient of a Curve
02	Finding the Gradient of a Curve
03	Finding the Gradient from First Principles
04	Differentiating by using Standard Results
05	Using Differentiation
06	Tangents and Normal
07	Maximum and Minimum Points

08	Increasing and Decreasing Functions
09	Points of Inflection
10	The Second Derivative
11	Applications
12	The Chain Rule
P2	**Differentiation**
13	The Product Rule
14	The Quotient Rule
15	Differentiating Natural Logarithms and Exponentials
16	Differentiating Trigonometrical Function
17	Differentiating Function Defined Implicitly
18	Parametric Equations
19	Parametric Differentiation
P1	**Integration**
01	Reversing Differentiation
02	Finding the Area Under a Curve
03	Area as the Limit of a Sum
04	Areas Below the X Axis
05	The Area Between two Curves
06	The Area Between a Curve and the Y Axis
07	The reverse Chain Rule
08	Improper Integrals
09	Finding Volumes by Integration
P2	**Integration**
10	Integrals Involving the Exponential Function
11	Integrals Involving the Natural Logarithm Function
12	Integrals Involving Trigonometrical Functions
13	Numerical Integration
P3	**Integration**
14	Integration by Substitution
15	Integrals Involving Exponentials and Natural Logarithms
16	Integrals Involving Trigonometrical Functions
17	The Use of Partial Fractions in Integration
18	Integration by Parts
19	General Integration
P3	**Differential Equations**
01	Forming Differential Equations from Rate of Change
02	Solving Differential Equations
P1	**Trigonometry**
01	Trigonometry Background
02	Trigonometry Functions
03	Trigonometrical Function for Angles of Any Size
04	The sine and cosine Graphs
05	The tangent Graph
06	Solving Equations Using Graphs of Trigonometrical Function s
07	Circular Measure
08	The Length of an Arc of a Circle
09	The Area of a Sector of a Circle
10	Other Trigonometrical Functions
P2	**Trigonometry**

11	Reciprocal Trigonometrical Functions
12	Compound-Angle Formulae
13	Double-Angle Formulae
14	The Forms rcos, rsin
15	The General Solutions of Trigonometrical Equations
P1	**Vectors**
01	Vectors in two Dimensions
02	Vectors in three Dimensions
03	Vector Calculation
04	The Angle Between two Vectors
P2	**Vectors**
05	The Vector Equation of a Line
06	The Intersection of two Lines
07	The Angle Between two Lines
08	The Perpendicular Distance from a Point to a Line
09	The Vector Equation of a Plane
10	The Intersection of a Line and a Plane
11	The Distance of a Point from a Plane
12	The Angle Between a Line and a Plane
13	The Intersection of two Planes
P2	**Logarithms and Exponentials**
01	Logarithms
02	Exponential Functions
03	Modelling Curves
04	The Natural Logarithm Function
05	The Exponential Function
P2	**Numerical Solution of Equations**
01	Interval Estimation – Change-of-Sign Methods
02	Fixed-Point Iteration
P3	**Complex Numbers**
01	The Growth of the Number System
02	Working with Complex Numbers
03	Representing Complex Numbers Geometrically
04	Sets of Points in an Argand Diagram
05	The Modulus-Argument from of COMPLEX Numbers
06	Sets of Points Using the Polar Form
07	Working with Complex Numbers in Polar Form
08	Complex Exponents
09	Complex Numbers and Equations

MATHEMATICS (STATISTICS)	
S1	**Exploring Data**
01	Looking at the data
02	Stem-and-Leaf Diagrams
03	Categorical or Qualitative Data
04	Numerical or Quantitative Data
05	Measures of Central Tendency
06	Frequency Distributions
07	Grouped Data
08	Measures of spread (variation)
09	Working with an Assumed Mean
S1	**Representing and Interpreting Data**
01	Histograms
02	Measures of Central Tendency and of Spread Using Quartiles
03	Cumulative Frequency Curves
S1	**Probability**
01	Measuring Probability
02	Estimating Probability
03	Expectation
04	The Probability of Either One Event or Another
05	Independent and Dependent Events
06	Conditional Probability
S1	**Discrete Random Variables**
01	Discrete Random Variables
02	Expectation and Variance
S1	**Permutations and Combinations**
01	Factorials
02	Permutations
03	Combinations
04	The Binomial Coefficients
05	Using Binomial Coefficients to Calculate Probabilities
S1	**The Binomial Distribution**
01	The Binomial Distribution
02	The Expectation and Variance of B
03	Using the Binomial Distribution
S1	**The Normal Distribution**
01	Using Normal Distribution Tables
02	The Normal Curve
03	Modelling Discrete Situations
04	Using the Normal Distribution as an Approximation for the Binomial Distribution
S2	**Hypothesis Testing Using the Binomial Distribution**
01	Defining Terms
02	Hypothesis Testing Checklist
03	Choosing the Significance Level
04	Critical Values and Critical (Rejection) Regions
05	One-Tail and Two-Tail Tests
06	Type I and Type II Errors
S2	**The Poisson Distribution**
01	The Poisson Distribution

02	Modelling with a Poisson Distribution
03	The Sum of Two or More Poisson Distributions
04	The Poisson Approximation to the Binomial Distribution
05	Using The Normal Distribution as an Approximation for The Poisson Distribution
S2	**Continuous Random Variables**
01	Probability Density Function
02	Mean and Variance
03	The Median
04	The Mode
05	The Uniform (Rectangular) Distribution
S2	**Linear Combinations of Random Variables**
01	The Expectation (Mean) of a Function of X, E
02	Expectation: Algebraic Results
03	The Sums and Differences of Independent Random Variables
04	More Than Two Independent Random Variables
S2	**Sampling**
01	Terms and Notation
02	Sampling
03	Sampling Techniques
S2	**Hypothesis Testing and Confidence Intervals Using Normal Distribution**
01	Interpreting Sample Data Using The Normal Distribution
02	The Central Limit Theorem
03	Confidence Intervals
04	How Large a Sample Do You Need?
05	Confidence Intervals for a Proportion