

PURE

Pure Year 1

1. [] Algebraic expressions
2. [] Quadratics
3. [] Equations and inequalities
4. [] Graphs and transformations
5. [] Straight line graphs
6. [] Circles
7. [] Algebraic methods
8. [] The binomial expansion
9. [] Trigonometric ratios
10. [] Trigonometric identities and equations
11. [] Vectors
12. [] Differentiation
13. [] Integration
14. [] Exponentials and logarithms

Pure Year 2

1. [] Algebraic methods
2. [] Functions and graphs
3. [] Sequences and series
4. [] Binomial expansion
5. [] Radians
6. [] Trigonometric functions
7. [] Trigonometry and modelling
8. [] Parametric equations
9. [] Differentiation
10. [] Numerical methods
11. [] Integration
12. [] Vectors

Core Pure 1

1. [] Complex numbers
2. [] Argand diagrams
3. [] Series
4. [] Roots of polynomials
5. [] Volumes of revolution
6. [] Matrices
7. [] Linear transformations
8. [] Proof by induction
9. [] Vectors

Core Pure 2

1. [] Complex numbers
2. [] Series
3. [] Methods in calculus
4. [] Volumes of revolution
5. [] Polar coordinates
6. [] Hyperbolic functions
7. [] Methods in differential equations
8. [] Modelling with differential equations

STATS

Stats Year 1

1. [] Data collection
2. [] Measures of location and spread
3. [] Representations of data
4. [] Correlation
5. [] Probability
6. [] Statistical distributions
7. [] Hypothesis testing

Stats Year 2

1. [] Regression, correlation and hypothesis testing
2. [] Conditional probability
3. [] The normal distribution

Further Statistics 1

1. [] Discrete random variables
2. [] Poisson distributions
3. [] Geometric and negative binomial distributions
4. [] Hypothesis testing
5. [] Central limit theorem
6. [] Chi-squared tests
7. [] Probability generating functions
8. [] Quality of tests

MECHANICS

Mechanics Year 1

8. [] Modelling in mechanics
9. [] Constant acceleration
10. [] Forces and motion
11. [] Variable acceleration

Mechanics Year 2

4. [] Moments
5. [] Forces and friction
6. [] Projectiles
7. [] Applications of forces
8. [] Further kinematics

DECISION

Decision 1

1. [] Algorithms
2. [] Graphs and networks
3. [] Algorithms on graphs
4. [] Route inspection
5. [] The travelling salesman problem
6. [] Linear programming
7. [] The simplex algorithm
8. [] Critical path analysis