



Statistics & Further Maths GCSE Curriculum Palette

Autumn

2. Processing, Representing & Analysing Data

3. Probability Distributions

Year 10



- 2 D Further Summary Statistics
- Index Numbers/Weighted Index Numbers
- Retail Price Index (RPI)
- Consumer Price Index (CPI)
- Gross Domestic Product (GDP)
- Interpret Data Related To Rates Of Change Over Time When Given In Graphical Form
- Calculate & Interpret Rates Of Change Over Time From Tables Using Context Specific Formula

- Binomial Distribution
- Notation B (n, p)
- Conditions That Make Binomial Model Suitable
- Mean (np)
- Calculation Of Binomial Probabilities
- Normal Distribution

- Recall & Apply Knowledge Of The Basic Processes Of Algebra
- Understand & Use The Hierarchy Of Operations
- Understand & Use Commutative, Associative & Distributive Laws
- Know & Understand That If There Are x Ways To Do Task 1, & y Ways To Do Task 2, There Are xy Ways To Do Both Tasks In Sequence
- Understand Rounding & Give Answers To An Appropriate Degree Of Accuracy
- Understand & Use Numbers In Index Form & Standard Form
- Understand & Use Ratio & Proportion
- Understand & Use The Correct Hierarchy Of Operations
- Revision For Paper 1 & Paper 2
- Use Action & Warning Lines In Quality Assurance Sampling Applications
- Control Charts
- 2 G Quality Assurance
- Standardised Scores
- 2 C Measures Of Dispersion
- Conditions That Make Normal Model Suitable
- Characteristics Of Normal Distribution
- Notation N(μ, σ²)

INTERLEAVING REVISION TOPICS IN RESPONSE TO ASSESSMENTS

Spring

- Extending To More Complex Expressions, Equations, Formulae & Identities
- Expand Two Or More Brackets
- Simplify Expressions By Collecting Like Terms
- Expand & Simplify (a + b)n For Positive Integer n
- Work Out A Particular Coefficient Of A Term In The Expansion Of (a + b)n For Positive Integer n
- Factorise By Taking Out Common Factors From Expressions
- Factorise Expressions Given In The Form Of A Quadratic
- Factorise A Difference Of Two Squares
- Understand Perimeter
- Recall & Use The Formula For Area Of A Rectangle
- Recall & Use The Formula × Base × Height For Area Of A Triangle
- Use The Formula ab sin C For Area Of A Triangle
- Recall & Use Formulae For Circumference & Area Of A Circle
- Recall & Use Formulae For Volume Of A Cube, A Cuboid, Prisms & Pyramids
- Use Formulae For Volume Of A Cone & Of A Sphere
- Understand & Use Angle Properties Of Parallel & Intersecting Lines
- Understand & Use Angle Properties Of Triangles & Special Types Of Quadrilaterals & Polygons
- Understand & Use Circle Theorems
- Construct Formal Proofs Using Correct Mathematical Notation & Vocabulary
- Understand & Use The Formulae For Sine Rule & Cosine Rule

INTERLEAVING REVISION TOPICS IN RESPONSE TO ASSESSMENTS

Summer

- Revision Of GCSE Statistics Through Exam Paper Practice & Recapping Of Topics
- All Topics Reviewed In Preparation For External Examination In GCSE Statistics
- Solve Quadratic Equations By Factorisation, By Graph, By Completing The Square or By Formula
- Solve Linear Equations
- Equate Coefficients To Obtain Unknown Values
- Solve Quadratic Equations By Completing The Square
- Complete The Square For Any Quadratic Function Of The Form ax² + bx + c Where a, b & c Are Integers
- Prove Given Conditions For Algebraic Expressions
- Show That An Expression Can Be Manipulated Into Another Given Form
- Show How One Side Of An Identity Can Be Manipulated To Obtain The Other Side Of The Identity
- Manipulate Formulae & Expressions
- Change The Subject Of A Formula, Where The Subject Appears On One Or Both Sides Of The Formula
- Use A Combination Of The Skills Required In Order To Manipulate & Simplify Rational Algebraic Expressions

