

ADVANCE INFORMATION - HIGHER TIER - EDEXCEL - NOV 22 ONLY

| Paper 1 | | RAG |
|------------------|-------------------------------------|-----|
| Number | | |
| Arithmetic | Multiplication of decimals | |
| Fractions | Fraction arithmetic | |
| | One amount as a fraction of another | |
| Properties | Multiples | |
| | Highest common factor | |
| | Product of prime factors | |
| Powers and roots | Laws of indices | |
| | Fractional indices | |
| | Simplification of surds | |
| | Calculate exactly with surds | |

| Algebra | | |
|----------------------------|----------------------------------|--|
| Manipulation | Simplification | |
| | Substitute values | |
| | Factorise | |
| | Difference of two squares | |
| | Algebraic fractions | |
| Equations and inequalities | Linear simultaneous equations | |
| | Quadratic equation | |
| Graphs | Graph of cubic function | |
| | Graph of trigonometric functions | |
| Sequences | Geometric sequence | |

| Ratio, proportion, and rates of change | | |
|---|---|--|
| Percentages | One quantity as a percentage of another | |
| Ratio | Write as a ratio | |
| | Use of ratio | |
| Proportion | Inverse proportion | |
| Compound Measures | Pressure | |

| Geometry and measures | | |
|------------------------------|-------------------------------------|--|
| Shape | Transformations | |
| Angles | Angles in a triangle | |
| | Circle theorems | |
| Length, area and volume | Area of a rectangle | |
| | Arc length | |
| | Volume and surface area of a cone | |
| | Volume and surface area of a sphere | |
| Pythagoras & Trigonometry | Sine rule | |
| | Exact trigonometric values | |

| Probability | | |
|--------------------|-----------------------------|--|
| Probability | Expected frequency | |
| | Combined dependent events | |
| | Combined independent events | |

| Statistics | | |
|-------------------|--------------------------------|--|
| Diagrams | Histogram | |
| Population | Infer properties of population | |

| Paper 2 | | RAG |
|------------------------------|---------------------------------------|-----|
| Number | | |
| Arithmetic | Money | |
| Fractions | Recurring decimal to fraction | |
| Approximation and Estimation | Bounds | |
| Algebra | | |
| Manipulation | Substitute values | |
| Equations and inequalities | Equations of parallel lines | |
| | Quadratic equation | |
| | Equation of a circle | |
| | Equation of a tangent to a circle | |
| Graphs | Coordinates | |
| | Quadratic graph | |
| | Region defined by linear inequalities | |
| | Gradient of a curve | |
| Functions | Composite and inverse functions | |
| Sequences | nth term of a linear sequence | |

| Ratio, proportion, and rates of change | | |
|---|-----------------------------|--|
| Percentages | Percentage profit | |
| | Depreciation | |
| | Reverse percentage | |
| Proportion | Direct proportion | |
| Compound Measures | Compound interest | |
| Growth and decay | General iterative processes | |

| Geometry and measures | | |
|------------------------------|--------------------------------------|--|
| Shape | Plan and elevation | |
| | Areas and volumes of similar figures | |
| Length, area and volume | Area of a rectangle | |
| | Area of a triangle | |
| | Area of a sector | |
| Pythagoras & Trigonometry | Trigonometry | |
| | Pythagoras's Theorem | |
| | Trigonometry in 3-D | |

| Statistics | | |
|-------------------|-----------------------------------|--|
| Diagrams | Scatter graph | |
| | Cumulative frequency graph | |
| | Box Plot | |
| Measures | Median, upper and lower quartiles | |
| Population | Capture-recapture method | |

| Paper 3 | | RAG |
|------------------------------|---------------------------|-----|
| Number | | |
| Standard Form | Conversion | |
| | Calculation | |
| Approximation and Estimation | Error interval | |
| Other | Mathematical symbols | |
| | Product rule for counting | |

| Algebra | | |
|----------------|------------------------------|--|
| Manipulation | Simplification | |
| | Change subject of a formula | |
| | Laws of indices | |
| | Expand brackets | |
| | Completing the square | |
| Graphs | Algebraic fractions | |
| | Transformations of functions | |
| | Turning point | |

| Ratio, proportion, and rates of change | | |
|---|---|--|
| Conversion | Volume, speed | |
| Percentages | One quantity as a percentage of another | |
| | Write as a ratio | |
| Ratio | Share in a ratio | |
| | Use of ratio | |
| Compound Measures | Density | |

| Geometry and measures | | |
|------------------------------|---------------------------|--|
| Shape | Combined transformations | |
| | Congruent triangles | |
| Angles | Similar triangles | |
| | Angles on a straight line | |
| | Angles in a triangle | |
| | Angles of a polygon | |
| | Circle theorems | |
| Length, area and volume | Area of a triangle | |
| | Volume of a cylinder | |
| Pythagoras & Trigonometry | Cosine rule | |
| Vectors | Vector geometry | |

| Probability | | |
|--------------------|--------------------|--|
| Probability | Frequency tree | |
| | Expected frequency | |
| | Tree diagram | |
| | Combined events | |

| Statistics | | |
|-------------------|----------------------------|--|
| Diagrams | Cumulative frequency graph | |
| Measures | Mean | |