

Advance Information for Summer 2022

AS Level

Mathematics B (MEI)

H630

We have produced this advance information to support teachers and students with revision for the Summer 2022 examinations.

Information

- This notice covers all examined components.
- There are no restrictions on who can use this notice.
- You are **not** permitted to take this notice into the exam.
- This document has **3** pages.

Advice

- Students and teachers can discuss this advance information.
- It is advised that teaching and learning should still cover the entire subject content in the specification.
- The information is presented in specification order by the main topic of each question and not in question order.
- Topics not explicitly given in the list may appear in low tariff items or via synoptic questions.

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H630/01 – Pure Mathematics and Mechanics

Pure Mathematics

- Quadratic function, transformations
- Surds
- Coordinate geometry of straight lines, trigonometry
- Straight line models
- Binomial expansions
- Trigonometric graphs, solving trigonometric equations
- Tangents and normals, proof
- Integration as reverse of differentiation; sketching polynomial curves

Mechanics

- Kinematics graphs
- Calculus in kinematics
- Equation of motion in vector form
- Connected particles, force diagrams

H630/02 – Pure Mathematics and Statistics

Pure Mathematics

- Factorising a polynomial; quadratic inequalities
- Curve sketching; intersections
- Exponentials and logarithms
- Stationary points, curve sketching
- Area under a curve
- Position vectors, magnitude and direction

Statistics

- Sampling techniques; regression lines
- Data presentation; summary measures
- Data presentation; modelling with regression lines
- Discrete probability distributions
- Hypothesis testing for a binomial probability

END OF ADVANCE INFORMATION

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