

Pearson Edexcel Award (Level 2/3)

May–June 2022 Assessment Window

Syllabus
reference

AAL

Algebra Advance Information

You are not permitted to take this notice into the examination.
This document is valid if downloaded from the [Pearson Qualifications website](https://www.pearsonqualifications.com).

Instructions

- Please ensure that you have read this notice before the examination.

Information

- This notice covers all examined components.
- The format/structure of the assessments remains unchanged.
- This advance information details the focus of the content of the exams in the May–June 2022 assessments.
- There are no restrictions on who can use this notice.
- This notice is meant to help students to focus their revision time.
- Students and teachers can discuss advance information.
- This document has 5 pages.

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General advice

- In addition to covering the content outlined in the advance information, students and teachers should consider how to:
 - manage their revision of parts of the specification which may be assessed in areas not covered by the advance information
 - manage their revision of other parts of the specification which may provide knowledge that helps with understanding the areas being tested in 2022.
- For specifications with synoptic assessments, topics not explicitly given in the advance information may appear, e.g. where students are asked to bring together knowledge, skills and understanding from across the specification.
- For specifications with optional papers/topics/content, students should only refer to the advance information for their intended option.
- For specifications with NEA, advance information does not cover any NEA components.

A link to the Joint Council for Qualifications guidance document on advance information can be found on the Joint Council for Qualifications website or [here](#).

Advance Information

Subject specific section

- The information is presented in approximate specification order and does not reflect the order of the questions.
- Questions may be answerable using one or more of the indicated areas of specification content.
- The areas of content listed are grouped broadly by assessment objective, in relation to the May–June 2022 examinations.
- The aim should still be to cover all specification content in teaching and learning.
- Students may need to draw on prior knowledge and skills.
- Students will still be expected to apply their knowledge to unfamiliar contexts.
- Students responses to questions may draw upon knowledge, skills and understanding from across the content listed when responding to questions
- Students will be credited for using any relevant knowledge from any other topic areas when answering questions.

AAL20/01 – grouped broadly by assessment objective

Using algebraic symbols and manipulation

- Simplification of expressions including laws of indices
- Factorisation
- Expansion of expressions
- Equations, expressions and formulae
- Expressions – formulation and simplification
- Formulae – substitution and manipulation

Solving equations and inequalities and using substitution

- Solution of linear equations
- Sequences and nth terms
- Inequalities and number lines
- Solution of linear inequalities

Drawing, sketching and using graphs

- Straight line graphs and their equations.
- Interpretation and drawing of distance-time graphs
- Drawing straight line graphs
- Sketching graphs of quadratic functions
- Interpretation of real life graphs
- Drawing and use of graphs of quadratic functions
- Finding gradients and equations of straight line graphs

AAL30/01 – grouped broadly by assessment objective

Using algebraic symbols and manipulation

- Expansion and simplification of expressions including laws of indices
- Manipulation of formulae
- Factorisation
- Completing the square
- The n th term and sum of arithmetic series
- Inverse proportionality and graphical representation
- Sum and product of roots of a quadratic equation
- Manipulation of expressions involving surds including rationalisation
- Combining algebraic fractions and solution of equations involving algebraic fractions

Solving equations and inequalities and using substitution

- Solution of quadratic equations
- Solution of linear and quadratic inequalities
- The discriminant in quadratic equations
- Substitution
- Solution of linear equations
- Solution of simultaneous equations

Drawing, sketching and using graphs

- Representation of linear inequalities on a graph
- Construction of graphs of simple loci
- Tangents and Normals
- Finding equations of straight line graphs including parallel and perpendicular lines
- Sketching of graphs of reciprocal functions
- Drawing and use of graphs of exponential functions
- Use of the trapezium rule
- Transformation of graphs
- Interpretation of speed-time graphs

END OF ADVANCE INFORMATION