

# Pearson Edexcel Level 1/Level 2 International GCSE

**May–June 2022 Assessment Window**

Syllabus  
reference

**4MA1**

## **Mathematics**

### **Advance Information**

**You are not permitted to take this notice into the examination.**  
This document is valid if downloaded from the [Pearson Qualifications website](#).

### **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 the advance information.
- This document has 32 pages.

There are two option codes for this qualification. Some centres will enter for option “R”, depending on their location – if you’re unsure if your centre uses option “R” papers you should contact your centre who can confirm and check the [Information Manual](#). Please ensure you consult the advance information relevant to the option code used within your centre. Information related to the “R” option is indicated by an “R” after the paper number, e.g. 4MA1/02R or Paper 2R.

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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 which 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**

- Advance information will be provided for each paper and for each tier of entry.
- 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 suggested as key areas of focus for revision and final preparation, 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.

**Paper 1FR – grouped by content area**

<b>Number</b>	
Integers	Order integers
	Types of integers
	Use of the four rules
Fractions	Write a decimal as a fraction
	Use of the four rules
Percentages	Percentage of an amount
	One number as a percentage of another
	Compound interest
Ratio and proportion	Share in a ratio
Applying number	Money
	Cooking
Other	Use of a scientific calculator
<b>Algebra</b>	
Manipulation	Simplification
	Use of formulae
	Factorisation
	Expansion of brackets
	Indices
Equations	Linear equations
	Quadratic equations
Inequalities	Linear inequality

**Sequences, functions and graphs**

Sequences

Terms of a sequence

Graphs

Coordinates

Graphs of lines

**Geometry and trigonometry**

Angles and shapes

Names of angles and shapes

Symmetry

Measure an angle

Angles in polygons

Geometric reasoning

Measures

Unit conversion

Density

Length, area, volume

Area of triangle

Volume of a cylinder

Area and perimeter of composite shape

Pythagoras and Trigonometry

Pythagoras' Theorem

**Vectors and transformation geometry****Statistics and probability**

Diagrams

Pictogram

Pie chart

Statistical measures

Mean

Probability

Probability

Expected frequency

**Paper 2FR – grouped by content area**

<b>Number</b>	
Integers	Order integers
	Rounding
	Place value
	Use of the four rules
	Prime factors
Fractions	Fraction of an amount
Decimals	Order decimals
	Rounding
Powers and roots	Indices
Set language and notation	List members of a set
Percentages	Percentage of an amount
	Reverse percentage
Ratio and proportion	Write as a ratio
Standard form	Conversion
	Use of the four rules
Applying number	Unit conversion
	Money
	Time
Other	Use of a scientific calculator

**Algebra**

Manipulation

Simplification

Expansion of brackets

Use of formulae

Indices

Factorisation

Equations

Linear equations

**Sequences, functions and graphs**

Sequences

Terms of a sequence

Graphs

Graphs of lines

**Geometry and trigonometry**

Angles and shapes

Names of angles and shapes

Angles in polygons

Construction

Measures

Interpret scales

Unit conversion

Length, area, volume

Area and perimeter of composite shape

Area of trapezium

Area and perimeter of circle

Pythagoras and Trigonometry

Trigonometry

**Vectors and transformation geometry**

Transformations

Transformations

**Statistics and probability**

Diagrams	Bar chart
	Two-way table
Statistical measures	Mode
	Median
	Mean
	Range
Probability	Probability
	Listing outcomes





## Paper 1FR and 2FR – Foundation Tier Overall

Number	
Integers	Order integers
	Types of integers
	Use of the four rules
	Rounding
	Place value
	Prime factors
Fractions	Write a decimal as a fraction
	Use of the four rules
	Fraction of an amount
Decimals	Order decimals
	Rounding
Powers and roots	Indices
Set language and notation	List members of a set
Percentages	Percentage of an amount
	One number as a percentage of another
	Compound interest
	Reverse percentage
Ratio and proportion	Share in a ratio
	Write as a ratio
Standard form	Conversion
	Use of the four rules

Applying number	Unit conversion
	Money
	Time
	Cooking
Other	Use of a scientific calculator
<b>Algebra</b>	
Manipulation	Simplification
	Use of formulae
	Factorisation
	Expansion of brackets
	Indices
Equations	Linear equations
	Quadratic equations
Inequalities	Linear inequality
<b>Sequences, functions and graphs</b>	
Sequences	Terms of a sequence
Graphs	Coordinates
	Graphs of lines
<b>Geometry and trigonometry</b>	
Angles and shapes	Names of angles and shapes
	Symmetry
	Measure an angle
	Angles in polygons
	Geometric reasoning
	Construction



Measures	Unit conversion
	Interpret scales
	Density
Length, area, volume	Area of triangle
	Volume of a cylinder
	Area and perimeter of composite shape
	Area of trapezium
	Area and perimeter of circle
Pythagoras and Trigonometry	Pythagoras' Theorem
<b>Vectors and transformation geometry</b>	
Transformations	Transformations
<b>Statistics and probability</b>	
Diagrams	Pictogram
	Pie chart
	Bar chart
	Two-way table
Statistical measures	Mode
	Median
	Mean
	Range
Probability	Probability
	Expected frequency
	Listing outcomes