

# Pearson Edexcel Level 3 Certificate

May–June 2022 Assessment Window

Syllabus  
reference

7MCO

## Mathematics in Context 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 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, students should only refer to the advance information for their intended option.

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**

- For each paper, the lists below show the major focus of the content of the exams.
- Questions will be drawn from one or more of these areas of the specification content.
- The aim should still be to cover all specification content in teaching and learning.
- The information is presented in approximate specification order and not in question order.

As well as the content areas listed below, a number of questions will require direct interpretation and some manipulation of the data in the source booklet.

### 7MC0/01 Comprehension

| Content Area               | Advance information                     |
|----------------------------|---|
| Applications of statistics | Moving averages                         |
|                            | Standard deviation                      |
|                            | Spearman's rank correlation coefficient |
| Probability                | Independent and dependent probability   |
|                            | Conditional probability                 |
|                            | Probability tree diagram                |
| Sequences and growth       | Arithmetic series                       |
|                            | Geometric series                        |

## 7MC0/02 Applications

| Content Area               | Advance information                                   |
|----------------------------|---|
| Applications of statistics | Histogram   |
|                            | Cumulative frequency graph                            |
|                            | Measures of central tendency                          |
|                            | Box plot  |
|                            | Correlation   |
|                            | Independent and dependent variables                   |
|                            | Product moment correlation coefficient                |
| Probability                | Venn diagrams   |
|                            | Independent and dependent probability                 |
|                            | Conditional probability                               |
|                            | Risk  |
| Linear Programming         | Simultaneous equations                                |
|                            | Inequalities in one variable                          |
|                            | Use algebra to support and construct arguments        |
|                            | Formulate problems as linear programs                 |
|                            | Solve and interpret two-variable problems graphically |
| Sequences and growth       | Growth and decay problems                             |
|                            | Arithmetic series                                     |

**END OF ADVANCE INFORMATION**