

Exemplar Question Paper for Advanced Higher Mathematics of Mechanics

The Exemplar Question Paper and Marking Instructions have been developed to be used by centres and learners to prepare for question papers (exams) as part of Advanced Higher Course assessment. They show how questions from past papers can be used or amended to support learners in their exam preparation.

The structure of the Exemplar Question Paper is aligned with the guidance in the Course Assessment Specification, which is available on the subject page (www.sqa.org.uk/browsecfesubjects).

The questions in the Exemplar Question Paper follow the style and structure of similar questions in the Specimen Question Paper (also available on the subject page). The paper overall is designed to provide the same level of demand as the Specimen Question Paper; and the Detailed Marking Instructions reflect the approach of those in the Specimen Question Paper.

The questions included in the Advanced Higher Exemplar Question Paper were, as far as possible, selected or amended from those used in past papers, in accordance with the Guidance on the use of past paper questions document. Care has been taken to align the information in the table below with the questions identified in the guidance document and used in the Exemplar Question Paper.

If no suitable questions were available in recent past papers for reasons of sampling or because there is now new content, new questions were developed or appropriate questions were selected/adapted from other years. Details of how questions have been amended for this Exemplar Question Paper are given in the table below.

When using any past paper questions, it is important to remember that centres and learners must take into account the generic guidance on selection and/or amendments to questions below.

- ◆ You must select questions that provide the learners with the same level of challenge as those in the Advanced Higher Specimen Question Paper.
- ◆ You may be able to use questions as published or with amendments as suggested in the columns below.
- ◆ You must use questions that adhere to the Advanced Higher General Marking Principles and reflect the form of Detailed Marking Instructions as published in the Advanced Higher Specimen Question Paper.

If any change to a question is necessary, you must ensure that:

- ◆ The style and structure matches the Advanced Higher Specimen Question Paper.
- ◆ Marking of the learner's response to the question adheres to the General Marking Principles in the Advanced Higher Specimen Question Paper.
- ◆ Marking Instructions are amended to reflect the style of the Advanced Higher Detailed Marking Instructions.

Additional Subject Specific Information for Advanced Higher Mathematics of Mechanics

The table below shows which questions in the Exemplar Question Paper were selected/amended from past papers (and in what way they were amended) — in accordance with the Guidance on the use of past paper questions for Advanced Higher document — and also lists any new questions.

The Advanced Higher Exemplar Question Paper can be found on the [subject page](#).

Question papers in Advanced Higher will have the following mark allocation:

100 marks, consisting of a series of short response questions and extended response questions, set in contexts that require the application of skills developed in the Course.

Glossary of terms

Term	Explanatory comment
Question used as published in past paper	Past paper question has been used as previously published.
Past paper question with context amended	Past paper question has been used, but the basis of the information has altered, eg in Geography, this may mean a change in context from glaciation to coasts.
Past paper question with source amended	Past paper question has been used, but the source of information is different, eg in English this may mean a different text has been used.
Past paper question with style amended	Past paper question has been used, but the style of questioning has changed, eg in Mathematics, multiple-choice questions may have been changed to a short response question.
Past paper question with structure amended	Past paper question has been used but the structure of the question has changed, eg in Physics it may mean only part of a question was used with amendments to Marking Instructions to take account of no half marks.
New question written	This is a new area of Course content.

Exemplar question number	Question used as published in past paper, with or without amendment to Marking Instructions	Past paper question with context amended	Past paper question with source amended	Past paper question with style amended	Past paper question with structure amended	New question written
Q1	Advanced Higher Mechanics 2013, QA2 used as published					
Q2	Advanced Higher Mechanics 2010, QB1 (b) used as published					
Q3						New question written on moments.
Q4	Advanced Higher Mechanics 2006, QB5 used as published					
Q5	Advanced Higher Mechanics 2003, QC3 used as published	Minor amendment to diagram				
Q6	Advanced Higher Mechanics 2009, QB3 used as published					
Q7	Advanced Higher Mechanics 2015, QA4 (a) and (b) only used as published					
Q8	Advanced Higher Mechanics 2009, QA5 used as published				Minor adjustment to number of marks	
Q9	Advanced Higher Mechanics 2013, QA5 used as published					
Q10	Advanced Higher Mechanics 2013, QB3 used as published					

Q11	Advanced Higher Mechanics 2014, QA9 used as published					
Q12	Advanced Higher Mechanics 2015, QA8 used as published					
Q13	Advanced Higher Mechanics 2014, QB6 used as published					
Q14	Advanced Higher Mechanics 2014, QA8 used as published				Minor amendment to layout and number of marks	
Q15	Advanced Higher Mechanics 2013, QA7 used as published					
Q16	Advanced Higher Mechanics 2008, QA10 used as published					