LEVEL 2

WJEC Level 2 Additional Mathematics

Approved by Qualifications Wales

Delivery Guide

Teaching from 2026
For award from 2027

This Qualifications Wales regulated qualification is not available to centres in England.

Made for Wales.
Ready for the world.

WJEC would like to thank the students and teachers of Fitzalan High School, Cardiff and Llanwern High School, Newport for their participation in the creation of these covers.

Contents

Aims of the Delivery Guide

The aim of the Delivery Guide is to give an overview of the qualification and to help teachers understand how we assess Level 2 Additional Mathematics. It will offer an introduction to the specification, an assessment overview, and will support teachers in better understanding how to prepare their learners for the assessment of the different units in each qualification. More information on each unit can be found in the separate unit guides.

Qualification Structure

WJEC Level 2 Additional Mathematics consists of six units:

	Unit title	Type of Assessment	Weighting
Mandatory Units			
Unit 1	Algebra	Written examination	33⅓%
Unit 2	Calculus	Written examination	33⅓%
Optional Units			
Unit 3	Geometry and Trigonometry	Written examination	33⅓%
Unit 4	Statistics	Written examination	33⅓%
Unit 5	Mechanics	Written examination	33⅓%
Unit 6	Discrete and Decision Mathematics	Written examination	33⅓%

To be awarded the qualification, learners must complete **three** units:
- **two** mandatory units
- **one** optional unit.

Learners who complete fewer than three units will receive unit certification for the successful completion of each unit.

Unit 1

The purpose of this unit is to:
- formulate and reinforce key mathematical techniques
- strengthen manipulative algebraic skills.

A calculator will **not** be allowed in this examination.

Unit 2

The purpose of this unit is to introduce and develop an understanding of new concepts relating to calculus, supporting progression to the further study of mathematics or a related discipline.

A calculator will be allowed in this examination.

Unit 3

The purpose of this unit is to develop and strengthen the knowledge, skills and understanding of topics relating to geometry and trigonometry and be able to apply them in different contexts.

A calculator will be allowed in this examination.

Unit 4

The purpose of this unit is to develop and strengthen the understanding of topics and concepts relating to statistics and probability and be able to use the associated mathematical language and terminology effectively.

A calculator will be allowed in this examination.

Unit 5

The purpose of this unit is to introduce and develop an understanding of topics and concepts relating to mechanics and be able to apply them in different contexts.

A calculator will be allowed in this examination.

Unit 6

The purpose of this unit is to introduce and develop an understanding of new concepts and mathematical approaches relating to discrete and decision mathematics and be able to apply them to novel and abstract situations.

A calculator will be allowed in this examination.

Summary of Assessment

Mandatory units

Unit 1: Algebra
Written examination: 50 minutes
33⅓% of qualification
40 marks

The paper will comprise a number of short and longer, both structured and unstructured, questions.

A calculator will **not** be allowed in this paper.

Unit 2: Calculus
Written examination: 50 minutes
33⅓% of qualification
40 marks

The paper will comprise a number of short and longer, both structured and unstructured, questions.

A calculator will be allowed in this paper.

Optional units

Unit 3: Geometry and Trigonometry
Written examination: 50 minutes
33⅓% of qualification
40 marks

The paper will comprise a number of short and longer, both structured and unstructured, questions.

A calculator will be allowed in this paper.

Unit 4: Statistics
Written examination: 50 minutes
33⅓% of qualification
40 marks

The paper will comprise a number of short and longer, both structured and unstructured, questions.

A calculator will be allowed in this paper.

Unit 5: Mechanics
Written examination: 50 minutes
33⅓% of qualification

40 marks

The paper will comprise a number of short and longer, both structured and unstructured, questions.

A calculator will be allowed in this paper.

Unit 6: Discrete and Decision Mathematics
Written examination: 50 minutes
33⅓% of qualification

40 marks

The paper will comprise a number of short and longer, both structured and unstructured, questions.

A calculator will be allowed in this paper.

Assessment Objectives

Below are the assessment objectives for this specification. Learners must:

AO1

Recall and use their knowledge of the prescribed content.

AO2

Select and apply mathematical methods.

AO3

Interpret and analyse problems and use mathematical reasoning to solve them.

Unit 1

The distribution of the assessment objectives for this unit is:

AO1	AO2	AO3	Total
23⅓%	6⅔%	3⅓%	33⅓%

Unit 2

The distribution of the assessment objectives for this unit is:

AO1	AO2	AO3	Total
23⅓%	6⅔%	3⅓%	33⅓%

Units 3, 4, 5 & 6

The distribution of the assessment objectives for these units are:

AO1	AO2	AO3	Total
18⅓%	6⅔%	8⅓%	33⅓%

Specification and Assessment Pack

When we develop new qualifications, we produce the following documents:

- Specification – this covers all the information and skills that learners are expected to know by the end of their course
- Assessment Pack – this contains the Sample Assessment Materials (SAMs) i.e. sample exam papers and sample non-examination assessment (NEA) tasks, relevant controls for the NEA and mark schemes.

This guide builds upon the information in the specification and assessment pack to help further your understanding of said documents.

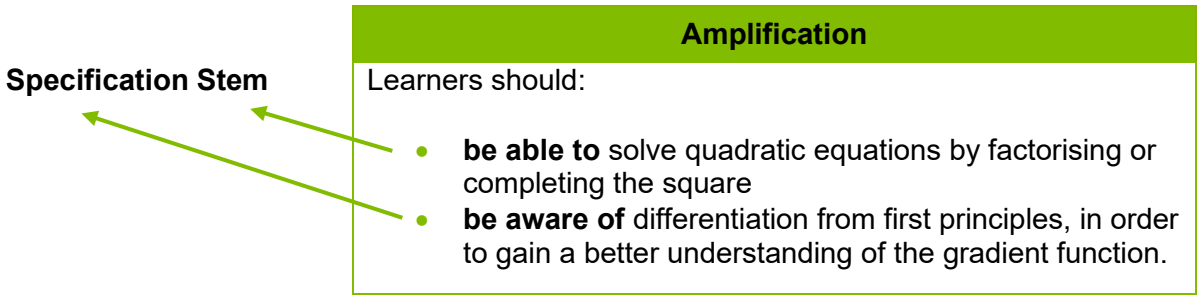
Understanding the specification amplification

Learners should be made aware of:

- the specification stems
- what the specification stems mean.

Specification Stems

When you look through the specification you will notice in the amplification column, we use a variety of wording before the list of content learners need to know; we call this a stem:



Each stem is used for a slightly different reason:

Specification Stem	When it is used
Learners should know	When learners are required to demonstrate factual knowledge
Learners should be aware of	When learners need a general understanding of a topic in order to access the unit. Learners will **not** be directly assessed on this content
Learners should understand	When learners are required to demonstrate greater depth of knowledge and understanding
Learners should be able to	When learners need to apply their knowledge and understanding to a practical situation or demonstrate application of practical skills and techniques

Command words

Learners should be made aware of:

- what command words are
- what each command word means
- what each command word assesses.

Command words are the words and phrases used in assessments that tell learners how they should answer the question or complete the task. Command words direct the learner through the question or task and indicate the nature of the response required.

(a) Solve the equation $16^x = 4^{37} \times 8^{-10}$.

Command word

Mark Schemes

Mark schemes and/or assessment criteria test the intended learning outcomes for a component. They describe the knowledge and skills (and possibly attitude) that a candidate is expected to demonstrate in their responses and are then used in marking the work.

Objective based mark scheme:

For very short answer questions requiring one correct response.

<table>
<tr><td rowspan="2">2</td><td colspan="3">Use an algebraic method to solve the simultaneous equations
$x^2 + y^2 = 40 - 17x$ and $x + y = 5$.</td></tr>
<tr><td>$y = 5 - x$
$x^2 + (5 - x)^2 = 40 - 17x$
$2x^2 + 7x - 15 = 0$

$(2x - 3)(x + 5) = 0$
$x = 1.5$ AND $x = -5$
$y = 3.5$ and $y = 10$</td><td>B1
M1
A1

M1
A1
A1</td><td>Or $x = 5 - y$
FT 'their y' attempt to substitute.
Must equate to zero (may be implied by answer).

FT equivalent level of difficulty.
Or a correct (x, y) pair.
Or a correct 2nd (x, y) pair.
FT x values from M1A0.</td></tr>
</table>

Important Dates

First Teaching of WJEC Level 2 Additional Mathematics	September 2026
First assessment for Unit 1	January 2027
First assessment for Units 2, 3, 4, 5 & 6	Summer 2027
First Certification	Summer 2027