



EDST2710

Teaching Mathematics 1

Session 2, In person-scheduled-weekday, North Ryde 2026

Macquarie School of Education

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Disclaimer

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General Information

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Credit points

10

Prerequisites

80cp and admission to (BEd(EC and Prim) or BEd(Prim) or BABEd(Prim) or BEd(Prim)BPsych)

Corequisites

Co-badged status

Unit description

This unit aims to develop teacher education students' content and pedagogical content knowledge of mathematics. This will be achieved through a focus on the aims, content and Working Mathematically processes of the NSW Mathematics K-10 Syllabus (aligned with the Australian Curriculum, Mathematics). The unit focuses on the scope and depth of appropriate teaching and learning content and pedagogies to cater for a range of diverse learning needs. This includes assessment for, of, and as learning to develop differentiated learning experiences using a range of resources. A research-based approach supports teacher education students' understanding of primary students' conceptual and developmental stages of learning and learning progressions.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

On successful completion of this unit, you will be able to:

ULO1: Articulate and evaluate pedagogical principles for developing students' mathematical thinking with reference to educational research and practice.

ULO2: Interpret and explain key concepts, principles, approaches, and developmental progressions in the NSW Mathematics syllabus.

ULO3: Demonstrate an understanding of assessment strategies to monitor student learning

ULO4: Demonstrate knowledge and understanding for differentiating teaching to meet the needs of diverse learners.

ULO5: Use curriculum, assessment and reporting knowledge to design learning experiences

ULO6: Demonstrate knowledge of a range of resources, including ICT, that engage students in their mathematical learning

General Assessment Information

General Submission Information

All written assessments must be submitted electronically. Please format assessments using 12-point font and 1.5 spacing. Submissions must meet the required file type and formatting specifications outlined in the assessment guidelines. If you are unsure about the file format or have technical difficulties, it is your responsibility to seek assistance before the submission deadline. Students should be careful to check that they submit the correct file for an assessment as no re-submissions will be accepted after the due date and time, including instances where students upload an incorrect file. It is not the responsibility of unit staff to contact students who have failed to submit assessments. If you have any missing items of assessment, it is your responsibility to contact the unit convenor.

Turnitin plagiarism detection software is used to check all written assessments. It is the responsibility of all students to ensure that their submitted work is in a format compatible with Turnitin software for plagiarism checking. Students can use Turnitin's Originality Report as a learning tool to improve their academic writing if this option is made available in the unit.

Word limits are strictly applied, with + or – 10% applicable. Work above the word limit will not be marked.

Academic Integrity

Students should be aware of and apply the University policy on academic integrity (see: <https://policies.mq.edu.au/document/view.php?id=3>).

Artificial Intelligence

<https://students.mq.edu.au/study/assessment-exams/assessments/ai-and-assessment>

<https://policies.mq.edu.au/document/view.php?id=394>

Information for Unit Convenors: [What to communicate to students about AI and Assessments.](#)

Special Consideration / Late Penalties

Unless a Special Consideration request has been submitted and approved, a 5% penalty (of the total possible mark) will be applied each day to late submissions, up until the 7th calendar day (including weekends). After the 7th day, a mark of '0' (zero) will be awarded even if the assessment is submitted. Submission time for all written assessments is set at 11.55pm. A 1-hour grace period is provided to students who experience a technical issue.

Important to note:

Late submission of time sensitive tasks (such as tests/exams, performance assessments/presentations, scheduled practical assessments/labs) will be addressed by the unit convenor in a Special consideration application.

Students should not request an informal arrangement from their tutor, lecturer or Unit Convenor (or equivalent).

Where an application for Special Consideration is approved and the outcome is an extension to the due date of a task, submissions that are received after the new due date will be subject to late penalties that are calculated from the new due date. This only applies where the outcome is an extension to the due date – see the [Special Consideration Policy](#) for a schedule of all possible outcomes.

A Special Consideration outcome may result in a new question or topic.

Applications must be made via [Service Connect](#).

University Policy on Grading

Assignments will be awarded grades ranging from HD to F according to guidelines set out in the [University's Grading System](#) and [University Assessment Policy](#).

To attain a pass or higher grade in Professional Experience a student must obtain a satisfactory in both the Professional Experience component and a pass or higher grade in the academic component. For Professional Experience units the Professional Experience Evaluation Report is marked as Satisfactory or Unsatisfactory. The Macquarie Teaching Performance Assessment (MQTPA - in final WIL/PEX units) is marked as Not met, Met or Exceeds.

Results

Results shown in iLearn, or released directly by your Unit Convenor, are not confirmed because they are subject to final approval by the University. Once approved, final results will be sent to

your student email address and will be made available in [eStudent](#). For more information visit [Service Connect](#).

Withdrawing from this unit

If you are considering withdrawing from this unit, please seek academic advice via [Service Connect](#) before doing so as this unit may be a co-requisite

Assessment Tasks

Assessment 1 is due at a 23:55 on 16/09/2026

Assessment 2 is a formal examination and will be held during the examination period.

Assessment Tasks

Name	Weighting	Hurdle	Due	Groupwork/Individual	Short Extension	AI Approach
Final examination	50%	No	Exam Period	Individual	No	Observed
Lesson	50%	No	16/09/2026	Individual	Yes	Open

Final examination

Assessment Type [1](#): Examination

Indicative Time on Task [2](#): 45 hours

Due: **Exam Period**

Weighting: **50%**

Groupwork/Individual: Individual

Short extension [3](#): No

AI Approach: Observed

A closed-book exam during the examination period

On successful completion you will be able to:

- Interpret and explain key concepts, principles, approaches, and developmental progressions in the NSW Mathematics syllabus.
- Demonstrate an understanding of assessment strategies to monitor student learning
- Demonstrate knowledge and understanding for differentiating teaching to meet the needs of diverse learners.

Lesson

Assessment Type [1](#): Professional task

Indicative Time on Task [2](#): 45 hours

Due: **16/09/2026**

Weighting: **50%**

Groupwork/Individual: Individual

Short extension ³: Yes

AI Approach: Open

Critical summary and explanation of research related to students learning of a given mathematical content area, including key understandings, concepts, skills and working mathematically, and teaching strategies to address these. Design a mathematics lesson that addresses research.

On successful completion you will be able to:

- Articulate and evaluate pedagogical principles for developing students' mathematical thinking with reference to educational research and practice.
- Interpret and explain key concepts, principles, approaches, and developmental progressions in the NSW Mathematics syllabus.
- Demonstrate an understanding of assessment strategies to monitor student learning
- Demonstrate knowledge and understanding for differentiating teaching to meet the needs of diverse learners.
- Use curriculum, assessment and reporting knowledge to design learning experiences
- Demonstrate knowledge of a range of resources, including ICT, that engage students in their mathematical learning

¹ If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- [Academic Success](#) for academic skills support.

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation.

³ An automatic short extension is available for some assessments. Apply through the [Service Connect Portal](#).

Delivery and Resources

There is no required text for this unit. Recommended texts and readings will be listed on the iLearn site as well as on Leganto.

Information about the unit iLearn site

This unit has a full web presence through iLearn. Information for students about access to the online component of this unit is available at <https://ilearn.mq.edu.au/login/index.php>. You will need to enter your student username and password.

Please do NOT contact the Unit Convenor regarding iLearn technical help. Assistance is available from IT Helpdesk: via email onehelp@mq.edu.au or Ph: 9850 4357 or 1800 67 4357. On Campus: Ground floor at 18 Wally's Walk

Unit Schedule

The lecture schedule and summaries are listed on iLearn.

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](https://policies.mq.edu.au) (<https://policies.mq.edu.au>). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Assessment Procedure](#)
- [Complaints Resolution Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#)

Students seeking more policy resources can visit [Student Policies](https://students.mq.edu.au/support/study/policies) (<https://students.mq.edu.au/support/study/policies>). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

To find other policies relating to Teaching and Learning, visit [Policy Central](https://policies.mq.edu.au) (<https://policies.mq.edu.au>) and use the [search tool](#).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/student-conduct>

Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit connect.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Academic Integrity

At Macquarie, we believe [academic integrity](#) – honesty, respect, trust, responsibility, fairness and courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free [online writing an](#)

[d maths support](#), [academic skills development](#) and [wellbeing consultations](#).

School of Education Procedures

In addition, the following policies and procedures for the Macquarie School of Education apply to this unit.

Academic Progression Policy

This unit is a part of a professional course listed on Schedules 2 and 3 of the [Academic Progression Policy](#). This course has additional requirements that are applicable for the full duration of the course, including course-specific Inherent Requirements, Fitness to Practice requirements and other compulsory course requirements. It also has rigorous academic progression standards. Inability to meet these requirements may result in a withdrawal of offer of admission and/or permanent exclusion from the course in accordance with the General Coursework Rules.

Fitness to practice in a Professional Experience unit

Macquarie University operates under a 'Fitness to Practice' model as specified in the University's Academic Progression Policy. For this unit, this means that, when undertaking a placement, a student is declaring that they are able to demonstrate professional competence, acceptable professional behaviour, freedom from impairment, and compliance with program specific requirements needed for a student to practice properly and safely throughout their Practical, Clinical or Professional program or unit. It is the responsibility of the student to determine whether they are fit to undertake a placement. Therefore, if a student is feeling unfit to undertake a placement, they should not do so. For more information see the [Academic Progression Policy](#).

Communication

It is the student's responsibility to check all electronic communication on a weekly basis. Communication may occur via:

Official MQ Student Email Address

The Dialogue function on iLearn

Other iLearn communication functions

Attendance and Participation

See the University timetable for information about when classes begin in this unit. [Creating your timetable - Enrolling | Macquarie University, Sydney \(mq.edu.au\)](#). Students are required to attend the tutorial in which they are enrolled. Any changes to tutorial enrolments must be completed officially through e-Student. Please do not contact the unit convenor to request a change.

There is an attendance requirement in this unit. Initial Teacher Education (ITE) degrees must ensure that teacher education students meet unit learning outcomes, course learning outcomes and the Graduate level of the Australian Professional Standards for Teachers. Since units are within an accredited ITE degree, Macquarie School of Education is required to demonstrate these outcomes and standards have been taught, practised and assessed. To meet 'taught, practiced and assessed' accreditation requirements, ITE units

have mandatory attendance, with an expectation of at least 80% attendance at tutorials. Please see your unit iLearn site for details of how to meet attendance requirements in this unit.

Infrequent Attendance Students

Information about the dates of the on-campus sessions can be found in the university timetable. [Creating your timetable - Enrolling | Macquarie University, Sydney \(mq.edu.au\)](#)

The on-campus sessions are essential to student engagement and learning and attendance is expected.

Prior to the on-campus sessions, students should have read the prescribed readings and listened to the lectures, summarise the main points, and make notes of the key terms and definitions. Prepare any discussion questions of your own that you wish to share.

Please make effective use of the online component of the unit and access iLearn regularly. Keep up to date with listening to the lectures on a weekly basis.

Further details and any updates about times and locations will be posted on iLearn as an Announcement during first half of the semester.

Professional Experience Unit Expectations

- Important Professional Experience information can be found on Education Commons – see iLearn for details of how to self-enrol in Education Commons
- Students must be able to present evidence of completion of mandatory requirements prior to session census date (or as otherwise advised) to receive a placement for Professional Experience. Please check your email from the Work Integrated Learning (WIL) Office. Requirements are outlined here: <https://education.nsw.gov.au/teaching-and-learning/professional-learning/pl-resources/pre-service-teacher-resources/induction-for-pre-service-teachers/mandatory-pre-requisites-for-pre-service-teachers-participating->
- Students must have submitted written assessment tasks and/or completed associated unit requirements scheduled prior to the commencement of the block.
- Students who are completing a unit offered by another Department are expected to inform and negotiate with that unit convenor about their professional experience block dates and discuss how that unit's requirements can be met. For some situations it may mean that a student is enrolled externally for that unit so that attendance for tutorials for that unit is not impacted.
- Feedback from Placement Support Team and/or Tertiary Supervisors and/or Supervising Teachers is of a general nature. It is incumbent on the student to check the requirements of any assessments or Professional Experience written tasks prior to submission.
- Students may not be able to commence their placement until all alleged academic

honesty breaches have been investigated and resolved.

- The timing of placements can vary. For placements early in the session, fail grades may be approved by the university prior to the end of session for students who do not meet the placement expectations of the unit.
- If a student is identified as being In Need of Additional Support (INAS) for Professional Practice and/or Professional Experience written tasks, the [Macquarie School of Education's 'Additional Support' procedure](#) will be activated.

Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

Academic Success

[Academic Success](#) provides resources to develop your English language proficiency, academic writing, and communication skills.

- [Ask a Study Coach](#)
- [Access StudyWISE](#)
- [Upload an assignment to Studiosity](#)
- [Complete the Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

Student Services and Support

Macquarie University offers a range of [Student Support Services](#) including:

- [IT Support](#)
- [Accessibility and disability support](#) with study
- Mental health [support](#)
- [Safety support](#) to respond to bullying, harassment, sexual harassment and sexual assault
- [Social support including information about finances, tenancy and legal issues](#)
- [Student Advocacy](#) provides independent advice on MQ policies, procedures, and

processes

Student Enquiries

Got a question? Ask us via the [Service Connect Portal](#), or contact [Service Connect](#).

IT Help

For help with University computer systems and technology, visit <https://students.mq.edu.au/support/technology/service-desk>.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

Changes from Previous Offering

A closed-book exam will be held during the examination period. This will replace the four, in-class quizzes

Unit information based on version 2026.05 of the [Handbook](#)