



# SPED825

## Effective Instruction in Numeracy

S1 External 2019

*Department of Educational Studies*

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#### **Disclaimer**

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## General Information

Unit convenor and teaching staff

Co-Convenor

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Credit points

4

Prerequisites

Admission to GradCertLearnDiffSuppTeach or GradDipSpecEd or MSpecEd

Corequisites

SPED821

Co-badged status

Unit description

This unit focuses on providing students with the information and skills necessary to guide their instruction of students at risk of failure in the area of numeracy. It addresses current research-based theoretical, conceptual and pedagogical aspects of numeracy. Students are required to sit for an examination during the university examination period in Australia.

## 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:

Describe and apply the range of appropriate assessment strategies relevant to numeracy skills of an individual.

Describe and apply a range of strategies relevant to the numeracy skills of individuals.

Utilise professional knowledge and capacity for problem solving to select, develop and implement appropriate assessment, programming, intervention and monitoring strategies to meet the needs of particular individuals.

Draw on unit content, professional experience and the research literature to evaluate and critically reflect on a range of contemporary practices relevant to the development of numeracy skills in individuals.

Critically reflect on the research base underlying our current knowledge and identify both strengths and weaknesses in approaches to addressing numeracy problems in individuals.

## General Assessment Information

### Grading Procedures

Results for assessments will be reported as grades (ie., HD, D, Cr, P, F ). Where grades are used to report results for assessment components with significant weighting, convenors may also optionally add the suffixes of + (plus) or - (minus) to the generic descriptor in order to provide additional detail. For example:

Pass +

Pass

Pass -

In this case, a "Pass + " would indicate performance in the upper end of the pass range, a grade of "Pass" would indicate a mid-range pass and a "Pass -" would indicate performance at the lower end of the pass range. This principle is applied to all grade descriptors ( ie., HD, D, CR, P, F,)

Raw scores for all assessments will be moderated according to the University guidelines so that work judged to be of a given standard is awarded a moderated score within the following distribution: High Distinction 85-100; Distinction 75-84; Credit 65-74; Pass 50-64 ; Fail 0-49.

For example, if it is judged that the HD standard for a particular assessment is met by the work scoring 90-100, raw scores will be adjusted so that students received moderated scores between 85 and 100. This moderation takes into account both the stated performance standards for the assessment component and the degree of difficulty of the specific task.

## Assessment Weighting

All assessment tasks must be attempted for students to be eligible for an overall passing grade in the unit.

Students are required to gain an overall pass on the unit, but do not have to pass all assessment components. If you perform poorly on one component, you may compensate for this with a better performance in the other components. **Resubmission is not permitted**

Consistent with University Policy, moderated scores will be used in the calculation of final grades. The final unit score will be the weighted average of the moderated scores for the unit.

## Appeals against grades for individual assessment components

If any student has concern about the marking of an assessment, they must:

- Consult the member of staff who marked the work.
- If there is no satisfactory resolution, an appeal should be made in writing to the unit convenor within **one week** of the marked assessment being returned or of results being made available. The student should explicitly state the basis of the appeal.

The unit convenor will review the marking and may, at their discretion, ask for a remarking by a second marker. If re-marking by a second marker is judged appropriate, the final mark will normally be the average of the two marks awarded for the assessment task. Students should note that the revised mark for the task may be higher, the same, or lower than the original mark.

Please note that it is policy to double mark all failing assessments. The decision of the unit convenor is final.

## Appeals against final grades

See the Policies and Procedures section for details on appeals against Unit Grades.

## Academic Honesty and Plagiarism

You must read the Academic Honesty Policy in the Policies and Procedures section of this guide.

Important points:

- Close paraphrasing of another persons' writing is considered plagiarism. You must express ideas using your own words.
- Claim of ignorance of the University policy on plagiarism is NOT a defence. If you do not understand the Academic Honesty Policy, please seek advice from a member of the academic staff.

## Information Regarding the Assignment

### What is required for the Assignment

In general good presentation, correct grammar, spelling and appropriate word choice will be expected. Express your ideas concisely and clearly. The assignment should not exceed 2 300 words ( 1 800 - 2 300).

Strict APA referencing procedures should be used.

The assignment should be completed individually. It should be your own work, based on your personal study and research.

### How do I submit my assignment?

You will submit your assignment through Turnitin. A link will be provided on the iLearn website in the Assessment section.

### How do I know my assignment submission was successful?

Staff will NOT respond to requests to confirm that assignments have been correctly submitted. You will receive an email receipt on successful submission of your assignment in your student email account. Make sure that this has been received and retain this receipt. No claims will be considered regarding missing assignments without this receipt. You can also re-download your assignment to double-check it was submitted (see above).

**Students should print a copy of one of these screens after submission. No claims regarding missing assignments will be considered under any circumstances without a copy of this printout.**

### Assignment extensions and late penalties

Applications for extensions must be made via AskMQ at <https://ask.mq.edu.au> as a "Special Consideration" request before the submission date. Students who experience a disruption to their studies through ill-health or misadventure are able to apply for this request. *Extensions can only be granted if they meet the Special Consideration policy and are submitted via ask.mq.edu.au.* This will ensure consistency in the consideration of such requests is maintained.

**In general, there should be no need for extensions except through illness or misadventure that would be categorised as unavoidable disruption according to the University definition of same, and currently available at:**

<http://students.mq.edu.au/study/my-study-program/special-consideration>

**You must also inform your unit convenor that you have made a submission for 'special consideration'.**

Late submissions without extension will receive a penalty of 5% reduction of the total possible mark for each day late (including weekends and public holidays). You are reminded that submitting even just 1 day late could be the difference between passing and failing a unit. Late penalties are applied by unit convenors or their delegates after tasks are assessed.

No assessable work will be accepted after the return/release of marked work on the same topic. If a student is still permitted to submit on the basis of **Special Consideration**, an alternative topic may be set.

Students should keep an electronic file of all assessments. Claims regarding "lost" assessments cannot be made if the file cannot be produced. It is also advisable to keep an electronic file of all drafts and the final submission on a USB untouched/unopened after submission. This can be used to demonstrate easily that the assessment has not been amended after the submission date.

## **What is the deadline for submission?**

The deadline is 11:55 PM on the due date. Note that this means you must submit **BEFORE 11.55 PM**. Note that it takes time to upload your assignment to Turnitin. This is normally quite quick but will depend on the speed of your internet connection at the time. The submission time is the time that the assignment is recorded as received by Turnitin as we can not verify the time you start uploading. You need to allow time for the upload. **Do not leave submission of your assignment to the last hours (or minutes).**

Assignments received after the due date will be accepted provided they are received no later than 10 calendar days late. Note that this is not a period of grace, not a new deadline, and extension requests for events after the original due date will not be considered.

No assignment will be accepted after 10 days, except when an extension has been approved. Note that the 10 day period of grace applies only to the original due date. No period of grace applies when an extension has been granted. When an extension has been granted, the work must be submitted by the revised due date or a mark of zero will be awarded.

### **What if My Hard Disk Crashed, My Pet Hippopotamus Ate My Computer, etc?**

Computer problems will not be accepted as reasons for extensions. You are responsible for making sure your work is adequately backed up. Make sure your work is regularly backed up on a USB drive or to a cloud-based backup and don't leave your submission to the last minute. Always keep your hippopotamus and computer in separate rooms.

## **What if my assignment is only 11 seconds late?**

Late is late. Any submission after the deadline will be considered late.

### **What if I Accidentally Submit a Blank Assignment, the Wrong Document, etc?**

We can only mark what you submit. Make sure you re-download your assignment from the location that it was submitted and verify the correct document has been submitted. No consideration will be offered if you submit the incorrect document. You may submit your assignment only once before the due date.

When preparing your assignment, it is essential that:

- Students regularly save a copy of all assignments before submission.
- Unless there are exceptional circumstances, no assessment will be accepted after the

date that the assessment has been returned to other students.

#### Final Submissions

- Students are responsible for checking that their submission has been successful and has been submitted by the due date and time.
- Late submissions due to last minute technical difficulties will incur a lateness penalty.

## What if I exceed the word limits?

Some components of the assignment will have specific word limits. Components of answers beyond the stated word limit will not be marked. **That is, answers will only be marked up to the stated word limit.**

## How will I get feedback for my assignment?

Individual feedback will be provided electronically where you submitted your assignment.

Assignment grades will be available in the Grades section of the website.

## Assignment Rubric

The Assignment rubric will be available on the web site.

## Information Regarding the Final Examination

### Final Examination Rubric

In general, markers will be looking for the following qualities in your responses in the examination:

- Depth and breadth of knowledge of concepts and principles addressed in the unit
- Integration of concepts and principles from relevant content across the unit
- Evidence of generalisation of the concepts and principles addressed in the unit to new examples
- Synthesis of relevant content to address practical problems
- Quality of critical analysis, insight, and originality
- Ability to apply conceptual understanding to novel examples

## Information Regarding On line Participation

The relevant information can be found under Assessment Tasks.

## Assessment Tasks

Name	Weighting	Hurdle	Due
<u>Assignment</u>	50%	No	3rd May, 2019

Name	Weighting	Hurdle	Due
<a href="#"><u>Final Examination</u></a>	45%	No	Examination Period
<a href="#"><u>On Line Participation</u></a>	5%	No	7th June, 2019

## Assignment

Due: **3rd May, 2019**

Weighting: **50%**

## Assignment

The assignment will involve extended responses to between 3 and 6 questions. These may involve a range of relevant conceptual and applied tasks such as require students to: critically review research literature; design measurement or monitoring strategies; identify assessment or intervention strategies from given examples; design; comment on, analyse or interpret assessment and/or monitoring data; suggest, analyse or justify strategies for collaborating in a given scenario. Length will vary depending on the nature of the task but will generally be 2000 - 2500 words. The assignment will be available from the website from week 3 ( 11.3.2019) and will be due 11.55pm on 3.5.2019

On successful completion you will be able to:

- Describe and apply the range of appropriate assessment strategies relevant to numeracy skills of an individual.
- Describe and apply a range of strategies relevant to the numeracy skills of individuals.
- Utilise professional knowledge and capacity for problem solving to select, develop and implement appropriate assessment, programming, intervention and monitoring strategies to meet the needs of particular individuals.
- Draw on unit content, professional experience and the research literature to evaluate and critically reflect on a range of contemporary practices relevant to the development of numeracy skills in individuals.
- Critically reflect on the research base underlying our current knowledge and identify both strengths and weaknesses in approaches to addressing numeracy problems in individuals.

## Final Examination

Due: **Examination Period**



Weighting: **45%**

## Final Examination

### **THIS UNIT INCLUDES A FINAL EXAMINATION THAT MUST BE COMPLETED IN AUSTRALIA IN THE NOMINATED EXAMINATION PERIOD.**

**Distance students will be required to attend a nominated external examination centre in Australia. If you are not able to meet these requirements, ensure you withdraw from the unit before the HECS cut-off date.**

The Final three hour examination will be held during the University examination period. It will serve as a summative assessment for the unit. It will typically consist of around 10 short answer questions addressing theoretical understanding and practical application of unit content. All unit content is examinable. Student will be allowed to bring one A4 sheet of notes (single - sided) into the final examination. These notes must be typed or hand written and your name and student number must be placed in the top right-hand corner. These notes **must** be submitted with your examination. A sample examination paper will be provided at the end of the unit.

Please note that exams are scheduled Monday to Saturday. University rules specify that students must ensure that they are available for the full duration of the final examination period.

Distance students will be required to attend a nominated external examination centre.

On successful completion you will be able to:

- Describe and apply the range of appropriate assessment strategies relevant to numeracy skills of an individual.
- Describe and apply a range of strategies relevant to the numeracy skills of individuals.
- Utilise professional knowledge and capacity for problem solving to select, develop and implement appropriate assessment, programming, intervention and monitoring strategies to meet the needs of particular individuals.
- Draw on unit content, professional experience and the research literature to evaluate and critically reflect on a range of contemporary practices relevant to the development of numeracy skills in individuals.
- Critically reflect on the research base underlying our current knowledge and identify both strengths and weaknesses in approaches to addressing numeracy problems in individuals.

## On Line Participation

Due: **7th June, 2019**

Weighting: **5%**

## What does online participation involve?

Online participation involves making posts on the Topic Discussion Forums of the unit web site. Once a post is made in a Topic Discussion Forum, anybody in the unit can read or respond to it. Discussion questions for each topic will be provided. Alternatively, you may ask your own questions, give answers or offer comment. Only posts to Topic Forums will be counted.

Online participation allows you to give feedback and receive feedback from other students and staff, to explore issues in discussion with other students and staff and to practice required skill competencies.

## When can I contribute?

Topic discussion forums will close progressively through the semester. All forums will close at 11.55pm.

The content of each forum will remain accessible, but posts made after the closing date will not count towards your assessment.

Closing Dates for Discussion Forums

### Topic Closing date

Topic 1 - Introduction and mathematical knowledge. Approaches to numeracy for students with special needs.	8th March
Topic 2 - Assessment. Testing and Teaching early numeration skills. Number Sense	22nd March
Topic 3 - Testing and Teaching procedural strategies. Addition and Subtraction	5th April
Topic 4 - Testing and Teaching procedural strategies Multiplication and Division	10th May
Topic 5 - Testing and Teaching Problem Solving Skills Functional Skills	31st May

## How much do I have to contribute?

Each student is expected to make a minimum of (10) contributions to the topic discussions over the course of the semester. Each post should be a minimum of 50 words in length.

You should post in **at least eight (8) of the topics presented.**

Instructions on how to compile and submit posts will be provided on the iLearn website.

## Do discussion posts count towards assessment?

Yes. Discussion contributions are weighted at 5% of your final grade. Only contributions to Topic Forums are counted, social posts and general questions and comments do not count towards your assessment. If you make fewer than 10 posts to topic forums, your maximum possible mark will correspond to the number of posts made.

## How do I know my submission was successful?

There are two options for you to see your uploaded Assignments/Post compilations.

1. Return to the Assignment activity submission point where the uploaded file will be viewable.
2. If the Activities block is available for the unit, click on the Assignments link. All Assignment activities, including those that are 'already open' and 'closed', will be viewable here.

**Students should print a copy of one of these screens after submission. No claims regarding post compilation submissions will be considered under any circumstances without a copy of this printout.**

On successful completion you will be able to:

- Describe and apply the range of appropriate assessment strategies relevant to numeracy skills of an individual.
- Describe and apply a range of strategies relevant to the numeracy skills of individuals.
- Utilise professional knowledge and capacity for problem solving to select, develop and implement appropriate assessment, programming, intervention and monitoring strategies to meet the needs of particular individuals.
- Draw on unit content, professional experience and the research literature to evaluate and critically reflect on a range of contemporary practices relevant to the development of numeracy skills in individuals.
- Critically reflect on the research base underlying our current knowledge and identify both strengths and weaknesses in approaches to addressing numeracy problems in individuals.

## Delivery and Resources

### General Organisation of the Unit

The unit is organised in a external mode only and in a flexible delivery format.

Delivery is designed such that students may seek as much or as little assistance as required in completing the unit. It is critical that students are organised and disciplined. It is suggested that

you allocate a total of 8-12 hours per week to study for this unit. If you get significantly behind in your topic coverage, it may be impossible to catch up. Please start your study as soon as possible.

## Unit Delivery: Teaching and Learning Activities

- **Study Guides** provide an overview of topics and guide learning.
- **Readings** are designed to prepare students for the seminars as well as broaden a student's understanding of topics.
- **Online presentations** provide information and highlight key concepts.
- **Forums** provide students with the opportunity to ask questions and discuss issues relevant to the unit. Contributions to the online discussion forum can be a beneficial way of exchanging ideas and discussing unit content with other students. Although unit convenors typically check the Discussion Forums daily (on weekdays), they will not respond to all posts, as discussion between students may be more appropriate. **Forums should be checked every 48 hours for important announcements.**
- **Dialogue** allows students to communicate privately with the unit staff. **Dialogue should be checked every 48 hours for important information.**
- **Skype** is available at a mutually agreeable time with any student who requests this form of communication.
- **Assessments** allow students to refine and demonstrate achievement of unit learning outcomes.

## Technologies used and required

The unit uses an iLearn web site. You may access the site from:

<https://ilearn.mq.edu.au>

## Unit Schedule

The following table gives an overview of topics covered in the unit and the suggested completion date.

Module	RECOMMENDED COMPLETION DATE	CONTENT	FORMAT
--------	--------------------------------	---------	--------

1	8th March	Introduction Mathematical Knowledge  Approaches to numeracy for students with special education needs	ECHO
2	22nd March	Assessment of numeracy Skills. Testing and teaching early numeration skills (Number Sense)	ECHO
3	5th April	Testing and teaching of procedural strategies (Addition) Testing and teaching procedural strategies (Subtraction)	ECHO
4	10th May	Testing and teaching of procedural strategies (Multiplication) Testing and teaching of procedural strategies (Division)	ECHO
5	31st May	Testing and teaching Problem Solving Skills Testing and teaching functional maths	ECHO

## Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central\)](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). 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](#)

- [Grade Appeal Policy](#)
- [Complaint Management Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#) (**Note:** *The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.*)

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

If you would like to see all the policies relevant to Learning and Teaching visit [Policy Central](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central>).

## Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/study/getting-started/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 [ask.mq.edu.au](https://ask.mq.edu.au) or if you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)

## Student Support

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

## Learning Skills

Learning Skills ([mq.edu.au/learningskills](https://mq.edu.au/learningskills)) provides academic writing resources and study strategies to improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

## Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

## Student Enquiries

For all student enquiries, visit Student Connect at [ask.mq.edu.au](https://ask.mq.edu.au)

If you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)

## IT Help

For help with University computer systems and technology, visit [http://www.mq.edu.au/about\\_us/offices\\_and\\_units/information\\_technology/help/](http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/).

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.

## Graduate Capabilities

### PG - Capable of Professional and Personal Judgment and Initiative

Our postgraduates will demonstrate a high standard of discernment and common sense in their professional and personal judgment. They will have the ability to make informed choices and decisions that reflect both the nature of their professional work and their personal perspectives.

This graduate capability is supported by:

#### Learning outcomes

- Describe and apply the range of appropriate assessment strategies relevant to numeracy skills of an individual.
- Describe and apply a range of strategies relevant to the numeracy skills of individuals.
- Utilise professional knowledge and capacity for problem solving to select, develop and implement appropriate assessment, programming, intervention and monitoring strategies to meet the needs of particular individuals.
- Draw on unit content, professional experience and the research literature to evaluate and critically reflect on a range of contemporary practices relevant to the development of numeracy skills in individuals.
- Critically reflect on the research base underlying our current knowledge and identity both strengths and weaknesses in approaches to addressing numeracy problems in individuals.

#### Assessment tasks

- Assignment
- Final Examination
- On Line Participation

### PG - Discipline Knowledge and Skills

Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

## **Learning outcomes**

- Describe and apply the range of appropriate assessment strategies relevant to numeracy skills of an individual.
- Describe and apply a range of strategies relevant to the numeracy skills of individuals.
- Utilise professional knowledge and capacity for problem solving to select, develop and implement appropriate assessment, programming, intervention and monitoring strategies to meet the needs of particular individuals.
- Draw on unit content, professional experience and the research literature to evaluate and critically reflect on a range of contemporary practices relevant to the development of numeracy skills in individuals.
- Critically reflect on the research base underlying our current knowledge and identify both strengths and weaknesses in approaches to addressing numeracy problems in individuals.

## **Assessment tasks**

- Assignment
- Final Examination
- On Line Participation

## **PG - Critical, Analytical and Integrative Thinking**

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

## **Learning outcomes**

- Describe and apply the range of appropriate assessment strategies relevant to numeracy skills of an individual.
- Describe and apply a range of strategies relevant to the numeracy skills of individuals.
- Utilise professional knowledge and capacity for problem solving to select, develop and implement appropriate assessment, programming, intervention and monitoring strategies to meet the needs of particular individuals.
- Draw on unit content, professional experience and the research literature to evaluate and critically reflect on a range of contemporary practices relevant to the development of



numeracy skills in individuals.

- Critically reflect on the research base underlying our current knowledge and identity both strengths and weaknesses in approaches to addressing numeracy problems in individuals.

## **Assessment tasks**

- Assignment
- Final Examination
- On Line Participation

## **PG - Research and Problem Solving Capability**

Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

## **Learning outcomes**

- Describe and apply the range of appropriate assessment strategies relevant to numeracy skills of an individual.
- Describe and apply a range of strategies relevant to the numeracy skills of individuals.
- Utilise professional knowledge and capacity for problem solving to select, develop and implement appropriate assessment, programming, intervention and monitoring strategies to meet the needs of particular individuals.
- Draw on unit content, professional experience and the research literature to evaluate and critically reflect on a range of contemporary practices relevant to the development of numeracy skills in individuals.
- Critically reflect on the research base underlying our current knowledge and identity both strengths and weaknesses in approaches to addressing numeracy problems in individuals.

## **Assessment tasks**

- Assignment
- Final Examination
- On Line Participation

## **PG - Effective Communication**

Our postgraduates will be able to communicate effectively and convey their views to different

social, cultural, and professional audiences. They will be able to use a variety of technologically supported media to communicate with empathy using a range of written, spoken or visual formats.

This graduate capability is supported by:

## **Learning outcomes**

- Describe and apply the range of appropriate assessment strategies relevant to numeracy skills of an individual.
- Describe and apply a range of strategies relevant to the numeracy skills of individuals.
- Utilise professional knowledge and capacity for problem solving to select, develop and implement appropriate assessment, programming, intervention and monitoring strategies to meet the needs of particular individuals.
- Draw on unit content, professional experience and the research literature to evaluate and critically reflect on a range of contemporary practices relevant to the development of numeracy skills in individuals.
- Critically reflect on the research base underlying our current knowledge and identity both strengths and weaknesses in approaches to addressing numeracy problems in individuals.

## **Assessment tasks**

- Assignment
- Final Examination
- On Line Participation

## **PG - Engaged and Responsible, Active and Ethical Citizens**

Our postgraduates will be ethically aware and capable of confident transformative action in relation to their professional responsibilities and the wider community. They will have a sense of connectedness with others and country and have a sense of mutual obligation. They will be able to appreciate the impact of their professional roles for social justice and inclusion related to national and global issues

This graduate capability is supported by:

## **Learning outcomes**

- Describe and apply the range of appropriate assessment strategies relevant to numeracy skills of an individual.
- Describe and apply a range of strategies relevant to the numeracy skills of individuals.
- Utilise professional knowledge and capacity for problem solving to select, develop and implement appropriate assessment, programming, intervention and monitoring strategies to meet the needs of particular individuals.

- Draw on unit content, professional experience and the research literature to evaluate and critically reflect on a range of contemporary practices relevant to the development of numeracy skills in individuals.
- Critically reflect on the research base underlying our current knowledge and identify both strengths and weaknesses in approaches to addressing numeracy problems in individuals.

## **Assessment tasks**

- Assignment
- Final Examination
- On Line Participation

## **Changes from Previous Offering**

No Changes have been made since the last offering of the Unit

## **Required Unit Materials and Readings**

### **Text**

The required text for this unit is:

Stein, M; Kinder, D; Rolf, K; Silbert, J & Carnine, D. W. (2018). *Designing effective mathematics instruction. A direct instruction approach.* (5th ed). Upper Saddle River, NJ: Pearson Merrill Prentice-Hall.

The text is unlikely to be available from the Co-Op Bookshop so students are strongly advised to source a copy of this text from other sources as soon as possible before the unit begins.

There is also a digital version. Details can be found on the Pearson's web site (Australia).

### **Other Required Reading**

Required readings for each topic are listed in the Study Guides for each topic, available from the iLearn site. Compulsory readings may be downloaded from the multisearch section of the Library web site at: <http://www.library.mq.edu.au/reserve/> or from sites as advised in the study guides.

Required readings should be completed prior to viewing the relevant presentation or seminar and in conjunction with the study guide.

## **Unit Web Page**

### **Access**

An iLearn website has been established to support this unit. The site will offer the option of discussion forums on specific topics and Dialogue (Private communication) within the unit. Required study materials and assessment information are available on the website.

**You should check the website (General Discussion Forum and your**

## Dialogue) at least ONCE EVERY 48 HOURS. You will NOT receive any material in the mail.

**ALL communication is through the website.** The website may be accessed at: <https://ilearn.mq.edu.au>

Information about using iLearn is available at: [http://www.mq.edu.au/iLearn/student\\_info/](http://www.mq.edu.au/iLearn/student_info/)

### How do I get a password?

Information on first time log in and passwords is at <https://mypassword.mq.edu.au/index.php?screen=MQInitPW>

You will need your Student OneID number, surname and data of birth.

## What if I have password problems or need IT help?

If you have password problems or any other difficulties accessing the website, please contact: Student IT Help

Phone: (02) 9850 HELP (4357) (option 1) or freecall 1800 67 4357 Email: [help@mq.edu.au](mailto:help@mq.edu.au)

### PLEASE NOTE:

If you have contacted IT Help and still have difficulties obtaining your user name and password and are **UNABLE** to access unit websites **at the end of the first week of semester**, please contact your Unit convenor. Arrangements may be made to email you important study materials.

## Where Do I Start

To get you started in this unit, tick off each action as you complete it.

ACTION	COMPLETED
Carefully read this unit guide	
Carefully read this unit guide a second time	
Organise purchase of the textbook (Stein, Kinder, Rolf, Silbert & Carmine, 2018) or organise the text as an e-resource.	
Go to the unit website (from Friday 22nd FEBRUARY) and check Announcements, Dialogue and Discussion Forums for messages.	
If you have problems accessing the site contact IT Help urgently.	
Go to the START HERE section of the website, read and follow the instructions.	
Go to Module 1 section of the website and follow the instructions	

## Withdrawing from this Unit

If you are considering withdrawing from this unit, please seek academic advice by contacting askmq ( <https://ask.mq.edu.au> ) before doing so as this unit may be a co-

**requisite or prerequisite for units in the following semesters and may impact on your progression through the degree.**