

2025

 **Learn
Energise
Connect**



Friday 28th November, 2025

Amora Hotel, 200 Creek St, Brisbane

A full day of engaging workshops, where presenters will demonstrate how to make the most of your TI technology for student success!

Program



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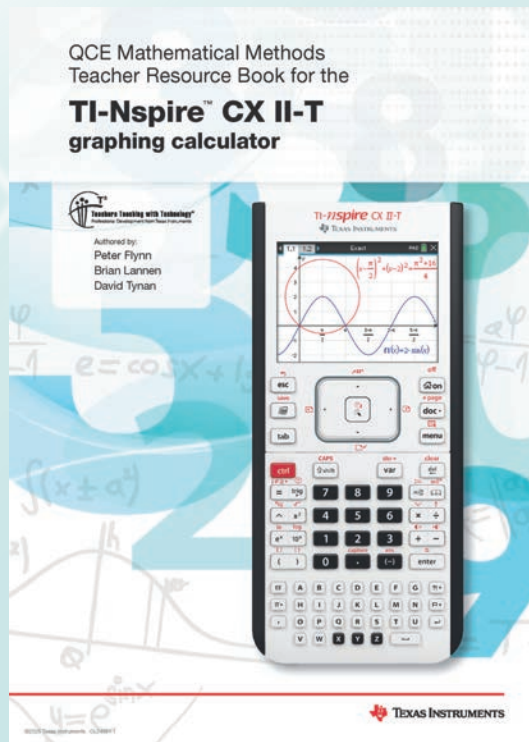
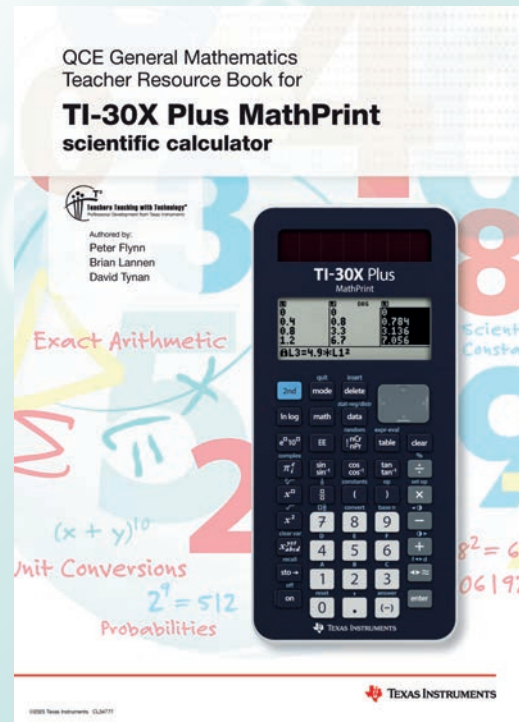
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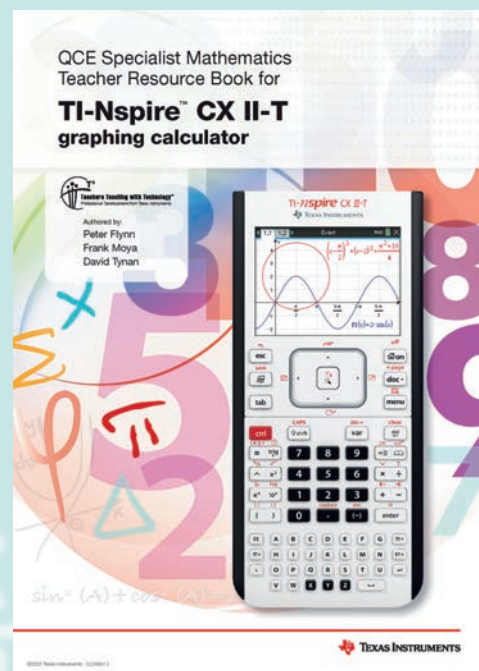
QCE Teacher Resource Books

QCE General Mathematics



QCE Mathematical Methods

QCE Specialist Mathematics



education.ti.com/aus/QLD

Scroll to the bottom of the page to find the downloadable books

2025 Learn . Energise . Connect Program

7:30am - 8:00am Arrival, Sign-in, Tea & Coffee Location: The Lawson

8:05am - 8:40am Welcome & Keynote Location: The Lawson

8:45am - 10:00am Session 1

A: Getting started with TI-Nspire™ CX II-T technology Course: Session 1 of 4

Room: Lawson 1

Are you new to TI-Nspire™ CX II-T technology? The entire day of 4 sessions will be allocated to new users (or for people who require a refresher course) of the TI-Nspire CXII-T. Learning the basics will give you the confidence to use this powerful technology in your classroom and provide students with the skills they need to use it effectively in their courses. The goal of the day is to have you saying, "I didn't know it could do all of that!". In this session we will explore the Calculator and Graph applications through carefully selected questions applicable to students in years 10 through to 12.

Presenter: Rodney Anderson

B: Specialist Mathematics Units 1 & 2

Technology: TI-Nspire CX II-T

Room: Paterson 1

In this session we will explore a range of activities and tech active sample questions that help develop student understanding in the key areas of Vectors, Complex Numbers, and Matrices in the Unit 1 and Unit 2 Specialist Mathematics course.

Presenter: Peter Flynn & Stephen Broderick

C: Mathematical Methods Units 1 & 2

Technology: TI-Nspire CX II-T

Room: Lawson 2

In this session we will explore concepts covered in Mathematical Methods units 1 and 2. Activities and tech active sample questions will be shared as tools to further develop student understanding of these concepts.

Presenter: Evan McGarrity

D: Consumer Arithmetic, Loans, Investments & Annuities

Technology: TI-30XB & TI-30XPlus MathPrint Scientific Calculators

Room: Paterson 2

Participants in this session will work through a range of activities from the new QCE General Mathematics Teacher Resource Book.

Focus areas will be on:

- Use of a spreadsheet to display example computations when multiple or repeated computations are required.
- Use of the compound interest formula to model a compound interest loan or investment.
- Effective annual rate of interest.
- Practical problems involving compound interest loans

Presenter: Brian Lannen

E: Exploring Functions and Polynomial Operations with the TI-84+CE

Room: Gilmore

This hands-on workshop will guide teachers through using the TI-84+CE to explore functions and polynomial operations.

Participants will:

- Build and analyse the graph of $(f+g)(x)$ from the graphs of $f(x)$ and $g(x)$ using the BLDCCURVE program.
- Investigate key points and intersections on the resulting graph and explore their behavior.
- Compare graphical and algebraic approaches, including using regression to model the sum of functions.

Teachers will leave with practical strategies, ready-to-use examples, and calculator techniques to make function operations more visual, interactive, and engaging for students.

Presenter: Mikaela Swayer

F: Saving Bluey using Balloons and TI Technology

Technology: TI-Nspire CX II-T & TI-84PlusCE

Room: Mackellar

Help! Bluey has fallen into a canyon and cannot climb out. With the use of TI technology and maths we can help Bluey. In this workshop, participants will engage in a data collection and analysis activity suitable for use in junior Maths and General Mathematics. Get ready for lots of fun!

Presenter: Melissa Hourigan

G: Specialist Mathematical Complex Numbers and Matrices

Room: Simpson

Complex numbers and matrices pose significant new skills for Unit 1 and 2 students in Specialist Mathematics. In this session we will explore a range of activities and tech active sample questions that help develop student understanding in key areas of the Specialist Mathematics course.

Presenter: David Tynan

10:00am - 10:30am Morning Tea The Lawson
10:35am - 11:45am Session 2
<p>A: Getting started with TI-Nspire CX II-T technology Course: Session 2 of 4 Room: Lawson 1 In this session we will extend our explorations to the Lists and Spreadsheet, and Data and Statistics applications. Also, the use of the TI-Nspire CX Premium Teacher Software will also be demonstrated. The focus of this day is on Mathematical Methods, but if the participants would like to review calculator skills for Specialist Mathematics, we will. Presenter: Rodney Anderson</p>
<p>B: Does a picture speak louder than words? Technology: TI-Nspire CX II-T Room: Lawson 2 Sometimes a picture does speak louder than a thousand words: especially when the picture connects a derivative function with its original function! Come along and learn how to collect data on the graphics calculator to plot the derivative function in real time. This teaching tool helps students visualise the connection between stationary points and where $f'(x)=0$; changes in concavity where $f''(x)=0$, allowing for sketching of functions given the first or second derivative function. You will develop a tns file which can be used as a teaching tool to connect polynomial and trigonometric functions to their derivatives! Presenter: Peter Flynn & Stephen Broderick</p>
<p>C: Specialist Mathematics: Calculus, DEs & Slope Fields Technology: TI-Nspire CX II-T Room: Paterson 1 In this session, participants will explore ways in which the TI-Nspire CX II-T can be used to enrich the teaching and learning of calculus and slope fields of a first-order differential equation. We will also showcase how to use the TI-Nspire CX II to analyse first-order differential equations such as the logistic equation and determine the gradient of curves given in implicit form. Presenter: Evan McGarrity</p>
<p>D: Growth & Decay in sequences Technology: TI-30XB & TI-30X Plus MathPrint Scientific Calculators Room: Paterson 2 Recursion will be used to generate both arithmetic and geometric sequences with terms displayed in both tabular and graphical form. Rules for the nth term will also be developed and models used to analyse practical situations of growth & decay. Presenter: Brian Lannen</p>
<p>E: Exploring Calculus with the TI-84+CE Room: Gilmore This hands-on workshop demonstrates how the TI-84+CE graphing calculator can enhance the teaching of Unit 2 & 3 Calculus. Teachers will explore using the calculator to: <ul style="list-style-type: none"> • Graph and analyse exponential, logarithmic, and trigonometric functions. • Introduce and reinforce derivatives and their applications, including tangents, normals, rates of change, and optimisation. • Apply differentiation and integration to solve real-world problems. Participants will leave with practical strategies and ready-to-use examples to make calculus concepts more visual, interactive, and engaging for students. Presenter: David Tynan</p>
<p>F: Full Circle: Unlocking Circle Geometry Theorems Technology: TI-Nspire CX II-T Room: Mackellar Hands on investigations lead to deeper understanding of mathematical concepts. Use the TI-Nspire CXII-T to create tns files to identify relationships between angles, chords, radii and tangents associated with circles. The ideas and resources from this session will be suitable for use in either Year 10 Extension/Specialist Mathematics or Year 11 Specialist Mathematics Unit 2. Presenter: Melissa Hourigan</p>
<p>G: Visualising Volumes with the TI-84CE Technology: TI-84 Plus CE Room: Simpson This hands-on workshop will show teachers how to use the TI-84+CE graphing calculator to bring volumes of revolution to life for their students. Participants will explore: <ul style="list-style-type: none"> • Graphical and numerical methods for calculating volumes of solids of revolution. • Practical strategies for integrating calculus concepts with visual models on the calculator. • Techniques to engage students with interactive, real-world problem-solving tasks. By the end of the session, teachers will have ready-to-use activities and calculator skills to make the abstract concept of volumes of revolution more intuitive and accessible. Presenter: John Bament</p>

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Teacher Resource Books for QCE (set of 3 books) (NEW)	300
TI-Nspire™ CX Docking Station.....	350
TI Charging Station 84CE.....	350
TI Rechargeable Battery (10 units).....	200
USB Wall Adaptors (10 Units).....	200
TI-Nspire™ CX CAS Navigator™ System (10 user).....	1250
inc 1 Access Point & 10 WIFI Adaptors & Docking Station	
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A: Getting started with TI-Nspire CX II technology Course: Session 3 of 4

Room: Lawson 1

Are you feeling confident? Yes, you are. Your new skills will be used to work through past Mathematical Methods QCAA Technology Active Multiple-Choice External Examinations.

Presenter: David Tynan

B: Review of Mathematical Methods QCAA Technology Active Examination Multiple Choice questions

Technology: TI-Nspire CX II-T

Room: Lawson 2

In this session, we will explore TI-Nspire CX II-T calculator skills that can be used to answer **Multiple Choice** questions from past QCAA Mathematical Methods Technology-Active Examinations accurately and efficiently. As part of our discussion, we will also consider how these examination questions and the affordances of the TI-Nspire CX II-T might positively inform future teaching and learning.

Presenter: Rodney Anderson & Natasha Kumar

C: Review of Specialist Mathematics QCAA Technology Active Examination Multiple Choice questions

Technology: TI-Nspire CX II-T

Room: Paterson 1

In this session, we will explore TI-Nspire CX II-T calculator skills that can be used to answer **Multiple Choice** questions from past QCAA Specialist Mathematics Technology-Active Examinations accurately and efficiently. As part of our discussion, we will also consider how these examination questions and the affordances of the TI-Nspire CX II-T might positively inform future teaching and learning.

Presenter: Kylie Prus & Peter Flynn

D: Univariate & Bivariate Data Analysis

Technology: TI-30XB & TI-30XPlus MathPrint Scientific Calculators

Room: Paterson 2

Participants in this session will work through a range of activities from the new QCE General Mathematics Teacher Resource Book for TI-30XPlus MathPrint scientific calculator. Focus areas will be on:

-Simulating a sporting game using random integers. (Playing Dice Cricket)

-Fitting a linear model to numerical data. (Swim Days)

Presenter: Melissa Hourigan

E: Review of Mathematical Methods QCAA Technology Active Examination Multiple Choice questions

Technology: TI-84PlusCE

Room: Gilmore

In this session, we will explore TI-84Plus CE calculator skills that can be used to answer **Multiple Choice** questions from past QCAA Mathematical Methods Technology-Active Examinations accurately and efficiently. As part of our discussion, we will also consider how these examination questions and the affordances of the TI-84Plus CE might positively inform future teaching and learning.

Presenter: Mikaela Sawyer

F: What is the footprint of your house from space?

Technology: TI-Nspire CX II-T

Room: Mackellar

In this session the presenters will explore the engaging 'What is the footprint of your house from space' activity, a scaffolded in-class activity that can be run in Year 8 or Year 9 to introduce the concept and language of a Problem Solving and Modelling Tasks. Students will use the gradient formula and the formula for a straight line to develop models for a variety of linear functions, explore simultaneous equations and more!

Presenter: Linda Swampoel & Mathew Unsworth

G: Review of Specialist Mathematics QCAA Technology Active Examination Multiple Choice questions

Technology: TI-84PlusCE

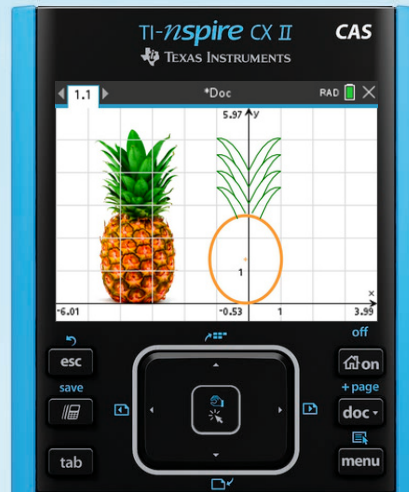
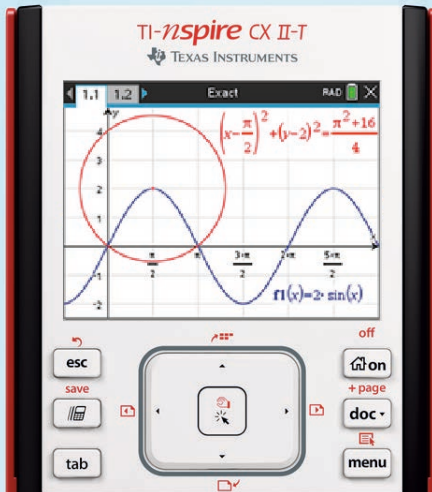
Room: Simpson

In this session, we will explore TI-84Plus CE calculator skills that can be used to answer **Multiple Choice** questions from past QCAA Specialist Mathematics Technology-Active Examinations accurately and efficiently. As part of our discussion, we will also consider how these examination questions and the affordances of the TI-84Plus CE might positively inform future teaching and learning.

Presenter: John Bament

1:15pm - 2:00pm Lunch
2:05pm - 3:15pm Session 4
<p>A: Getting started with TI-Nspire CX II technology Course: Session 4 of 4</p> <p>Room: Lawson 1</p> <p>Last session of this series. Your new skills will be used to work through past Mathematical Methods QCAA Technology Active Short Response External Examinations. If time, we will work through some Specialist Mathematics external examination questions.</p> <p>Presenter: David Tynan</p>
<p>B: Review of Mathematical Methods QCAA Technology Active Examination Short Answer questions</p> <p>Technology: TI-Nspire CX II-T</p> <p>In this session, we will explore TI-Nspire CX II-T calculator skills that can be used to answer Short Answer questions from past QCAA Mathematical Methods Technology-Active Examinations accurately and efficiently. As part of our discussion, we will also consider how these examination questions and the affordances of the TI-Nspire CX II-T might positively inform future teaching and learning.</p> <p>Presenter: Rodney Anderson & Natasha Kumar</p>
<p>C: Review of Specialist Mathematics QCAA Technology Active Examination Short Answer questions</p> <p>Technology: TI-Nspire CX II-T</p> <p>Room: Paterson 1</p> <p>In this session, we will explore TI-Nspire CX II-T calculator skills that can be used to answer Short Answer questions from past QCAA Specialist Mathematics Technology-Active Examinations accurately and efficiently. As part of our discussion, we will also consider how these examination questions and the affordances of the TI-Nspire CX II-T might positively inform future teaching and learning.</p> <p>Presenter: Kylie Prus & Peter Flynn</p>
<p>D: Calculator skills and preparation for the General Mathematics QCAA Technology Active Examination</p> <p>Technology: TI-30XB & TI-30XPlus MathPrint</p> <p>Room: Paterson 2</p> <p>Participants in this session will look at how the TI scientific calculators can be accurately and efficiently used to answer questions from the 2024 QCAA Technology-Active Examination. As part of this session, we will also consider how this technology might positively inform future teaching and learning.</p> <p>Presenter: Brian Lannen & Stephen Broderick</p>
<p>E: Review of Mathematical Methods QCAA Technology Active Examination Short Answer questions</p> <p>Technology: TI-84PlusCE</p> <p>Room: Gilmore</p> <p>In this session, we will explore TI- 84Plus CE calculator skills that can be used to answer Short Answer questions from past QCAA Mathematical Methods Technology-Active Examinations accurately and efficiently. As part of our discussion, we will also consider how these examination questions and the affordances of the TI-84Plus CE might positively inform future teaching and learning.</p> <p>Presenter: Mikela Sawyer</p>
<p>F: A bridge too far, regression analysis</p> <p>Technology: TI-Nspire CX II-T and TI-84Plus CE</p> <p>Room: Mackellar</p> <p>What do bridges and the tallest man in the world have in common? This workshop will see participants using bridge photos, data about the tallest man in the world and TI technology to investigate linear and quadratic functions using regression analysis.</p> <p>Presenter: Melissa Hourigan</p>
<p>G: Review of Specialist Mathematics QCAA Technology Active Examination Short Answer questions</p> <p>Technology: TI-84PlusCE</p> <p>Room: Simpson</p> <p>In this session, we will explore TI- 84Plus CE calculator skills that can be used to answer Short Answer questions from past QCAA Mathematical Methods Technology-Active Examinations accurately and efficiently. As part of our discussion, we will also consider how these examination questions and the affordances of the TI-84Plus CE might positively inform future teaching and learning.</p> <p>Presenter: John Bament</p>

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