

# Graphics Calculators



Graphics calculators allow students to visualize and explore mathematics in a powerful way, improving their understanding of difficult concepts. They are therefore recommended for use in most mathematics curricula at secondary and high school.



## TI-82 STATS

*11-16 years*

This entry-level graphics calculator is most suitable for learners at early secondary level.

- » Numbers of named lists with up to 999 elements, automatic creation of the residual list in the Y=editor, use any numbers as frequencies to calculate common statistical measures
- » Memory available to user: 24 KB RAM
- » Interactive graphical analysis including numerical derivatives and integrals
- » Up to 10 matrices and complex numbers
- » Inferential statistics, probability distributions
- » Display of the function on the graph



## TI-84 Plus

*11-16 years, Post-16, Further/Higher Education*

The TI-84 Plus is a reliable graphics calculator with a proven track record in the classroom and approved use on many mathematics exams and science classes in high school. It has a built in USB port and USB cable included for connections with computers, classroom display tools and data logging devices and sensors.

- » Memory available to the user: 480 KB ROM, 24 KB RAM
- » Eight-line by 16-character display, 64 x 96 pixels
- » Flash technology: apps are available from TI and other leading developers
- » Input and view mathematical symbols, formulae and fractions exactly as they appear when written
- » Optional: TI-SmartView™ Emulator Software for the TI-84 Plus Family

# Graphics Calculators



## TI-84 Plus CE-T

*11-16 years, Post-16, Further/Higher Education*

The TI-84 Plus CE-T has advanced graphing capabilities and improved interface features, with a high-resolution colour display and the ability to use images, making mathematical visualization more interesting and encouraging better understanding of difficult concepts.

- » Interactive graphical analysis including numerical derivatives and integrals
- » Includes all the functionality of, and is fully compatible with, the TI-83 Plus and TI-84 Plus
- » High resolution/colour screen; 10-line by 26-character display, 240 x 320 pixels. Graph/Table and Graph/Numeric split screen display
- » Memory available to the user: 3 MB ROM, 154 KB RAM
- » Add grid lines to a graphing window for easier viewing
- » Import images
- » Supports different language programming (TI Basic and Z80 assembly)
- » Includes rechargeable battery, eliminating the need to replace batteries
- » Includes USB computer cable and mini USB port on the calculator for computer connectivity
- » Optional: Charging Bay charges up to 10 handhelds at once
- » Optional: TI-SmartView™ CE Emulator Software for the TI-84 Plus family



## TI-Nspire™ CX

*11-16 years, Post-16, Further/Higher Education*

The TI-Nspire™ CX numeric handheld device and companion software are designed for teaching, learning and exploring mathematics and its applications. In addition to the flexibility offered by the TI-Nspire™ numeric handheld device's simple, menu-driven document structure, the TI-Nspire™ CX handheld numeric device is enhanced by a backlit colour screen with the ability to import images and overlay graphs and other elements, bringing concepts to life. A powerful teaching and learning tool as well as an exam calculator where graphics are permitted.

- » "2 in 1": Packaging includes handheld and companion software (for PC/Mac®)
- » Slim handheld with full-colour backlit display, touchpad and 100 MB RAM; includes rechargeable battery
- » Software allows for larger visualisation, more detailed work with data, programming and authoring on the computer
- » The user may create and modify documents on either the handheld device or computer software application, and also seamlessly exchange files between handheld and computer as well as connect to projectors and interactive whiteboards
- » Ability to import digital images onto the handheld screen as well as in the computer software
- » Five dynamically linked applications: Calculator, Graphs & Geometry, Lists & Spreadsheet, Data & Statistics, Notes
- » 3-D Graphing View plots surfaces which can be defined as  $z = f(x, y)$
- » Supports data logging for collection and analysis of real-life data and science experiments using the Vernier DataQuest™ application for TI-Nspire™ technology



# Graphics Calculators



## TI-Nspire™ CX CAS

*Post-16, Further/Higher Education*

The TI-Nspire™ CX CAS (Computer Algebra System) handheld device and companion software are designed to generate opportunities for classroom exploration and symbolic manipulations. In addition to the flexibility offered by the TI-Nspire™ CX CAS handheld device's simple, menu-driven document structure, the TI-Nspire™ CX CAS handheld device is enhanced by a backlit colour screen with the ability to import images and overlay graphs and other elements, bringing concepts to life.

- » "2 in 1": Packaging includes handheld and companion software (for PC/Mac®)
- » Slim handheld with full-colour backlit display, Touchpad and 100 MB RAM; includes rechargeable battery
- » Software allows for larger visualisation, more detailed work with data, programming and authoring on the computer as well as symbolic manipulations
- » CAS (Computer Algebra System) is a software programme which enables the manipulation of mathematical expressions in symbolic form
- » Ability to import digital images onto the handheld screen as well as in the computer software
- » The user may create and modify documents on either the handheld device or computer software application, and also seamlessly exchange files between handheld and computer as well as connect to projectors and interactive whiteboards
- » Five dynamically linked applications: Calculator, Graphs & Geometry, Lists & Spreadsheet, Data & Statistics, Notes
- » 3-D Graphing View plots surfaces which can be defined as  $z = f(x, y)$
- » Supports data logging for collection and analysis of real-life data and science experiments using the Vernier DataQuest™ application