fxNEWS
Support for all Casio fx-9860G models

eActivities

Introduction

To quote the Casio world site, "The innovative eActivity functions of the fx-9860G series allow the students, not to mention teachers, to create their own problems or study materials. With this function, students can learn at their own pace and study more efficiently at school or at home. By making full use of the superb features of the eActivity function, motivation for learning and understanding can be greatly improved."

This edition of fxNews contains 3 new eActivities.

AP explores different ways of solving Arithmetic Progression problems through *notes*, *solve*, *recursion*, *spreadsheets* and *run*. All present different ways of working with AP's on the fx9860 and give users a choice of methods to explore such sequences.

CIRCLE~R summarises formulas for arc length, sector area and segment area when the angles involved are measured in radians.

TRIANGLE contains eight solve strips plus several note strips for solving triangle problems. The eActivity has one section dealing with right-angled triangles and another to work with non-right angled triangles.

How to create an eActivity

Also in this edition is a nine-page feature on creating your own eActivities. It leads readers through the four steps below:

1. Create the eActivity using the emulator
2. Save the eActivity onto your computer
3. Import the eActivity into the FA-124 software
4. Transmit the eActivity from the FA-124 software to your fx9860G using the USB cable

Easy to customise.

Once in their own fx9860, all eActivities can be modified by teachers or students to suit their own personal requirements. Examples can be deleted, notes can be edited or added to and so on. If you want to save these changes, remember to save the eActivity before you leave it.

Working with eActivities

After loading an eActivity into your fx9860 (see feature 'How to load fxNews from CD into your fx-9860'), choose eACT from the Main Menu. Highlight the FXN06V2 folder, tap EXE, highlight the eActivity you require and tap EXE again.

Scroll down through the eActivity. When you arrive at a 'strip' it will highlight itself. Tap EXE to jump into the application and work on it, just as you would if you had entered through the main menu. Note that each strip is an individual and unique copy of one of the applications available from the Main Menu.

© The Tuition Centre 2006. All fxNews publications and software for use by members of subscribing institute only.

To return to the eActivity tap SHIFT then → (the arrow key below the tan key).

Once within a strip, to jump to another strip tap SHIFT then , (the comma key below the cos key).

To leave an eActivity tap EXIT. You will be asked whether you want to save changes to the eActivity. To leave the eActivity unchanged, tap F6 (No).

eActivities in this edition

Below is a brief description of each of the included eActivities.

Name	Description
AP	This eActivity summarises the basics of arithmetic progressions. Ways to work with AP's are illustrated in solve, recursion, run and spreadsheets. As well as finding Tn and Sn, methods for dealing with AP's such as 2x+3, x, x-7 are noted. Reference is also made to the AP program, included in the programs in this edition.
CIRCLE~R	This eActivity is used for solving circle problems such as arc length, sector area and segment area when the angles involved are measured in radians. Note strips explain the formulas used and also give different ways to convert between degrees and radians using the fx9860G.
TRIANGLE	This eActivity is an example of a basic collection of tools to solve problems involving triangles – both right angled and non-right angled. The first section concerns right triangles and four solve strips are used – one for Pythagoras' Theorem and the other three for SOH CAH TOA. The second section has four solve strips – the sine rule, cosine rule, area using .5absinC and area using a variant of Heron's formula. A brief description of the notation used is included in the eActivity.

© The Tuition Centre 2006. All fxNews publications and software for use by members of subscribing institute only.