

Starting Out with Casio ClassPad- MAWA Annual Conference 2020

A collection of 20 short videos that mirror this presentation
can be accessed as part of a free course at

<https://thetuitioncentre.com.au>

Simply create an account, login and enrol in the course.
The slides that follow show the 19 applications available on ClassPad.

Charlie Watson

November 2020

charlie@charliewatson.com

Application Menu

- Two pages of apps
- E-CON3 and/or Physium
- Check OS Version
- Nov '20, Handheld v02.01.7....
- Touch Panel Alignment

Starting out with Casio ClassPad

1

Main

- General calculations

$$\frac{\sqrt{x+5}}{x^2+1} | x = -2.2$$

- Solving equations

$$x^3 = 2x + 1$$

- Simultaneous equations

$$2x + 3y = 1, x - 2y = 4$$

- CAS

$$\int \cos 4x \, dx$$

Starting out with Casio ClassPad

2

Statistics

- Summary statistics
- Linear regression
- Binomial probability

$$X \sim B(5, 0.6), P(X = 2)$$

	list 1	list 2
1	1	19
2	2	18
3	3	16
4	4	17
5	5	15
6	6	16
7	7	13
8	8	15
9	9	13
10	10	12
11	11	10
12	12	13

Starting out with Casio ClassPad

3

Spreadsheet

- Edit -> Fill -> Range
- E.g. Fibonacci sequence*
- Some graph options
 - File -> Save
 - Open csv file

Starting out with Casio ClassPad

4

Graph & Table

- Sketch $y = x^2 - 3x$

Starting out with Casio ClassPad

5

Geometry

- Coordinate geometry

Line segment from $A(-1, -3)$ to $B(2, 6)$

- Solve by scale drawing

Triangle with sides 12 cm, 25 cm and included angle of 105° .

Starting out with Casio ClassPad

6

Picture Plot

- Model the curve of the hammock in this photo.



Starting out with Casio ClassPad

7

Conics

- Complete the square
- Factor a circle

Starting out with Casio ClassPad

8

NumSolve

- Variables from Var tab

$$A = 2\pi r(r + h)$$

Starting out with Casio ClassPad

9

eActivity

- Create your own
- Download and import eActivities written by others

Sites:

<https://charliewatson.com>

<http://edu.casio.com>

Starting out with Casio ClassPad

10

Finance

- Effective interest rate

Card debt attracts interest of 16.9% compounded daily.

- Loan repayment

Loan at 8.4% pa of \$15 000 is repaid in 36 equal repayments.

Starting out with Casio ClassPad

11

Sequence

- Arithmetic sequence

$$T_{n+1} = T_n + 6, T_1 = 3$$

Starting out with Casio ClassPad

12

Program

- Write your own code using Casio basic
- Download and import programs written by others

Starting out with Casio ClassPad

13

System

- Initialise
Will wipe all existing data from ClassPad and reset all Apps – great for second-hand models.
- Use to import programs, eActivities and other data copied to ClassPad using a USB cable.
(Storage & Import = USB drive)
- Modify shift keys
- Set User Name

Starting out with Casio ClassPad

14

Communication

- Use a 3-pin cable to send programs, eActivities and other data between ClassPads
(Require 2.5mm jacks, earth-earth and cross-wired tip to middle)
- Exam mode (since OS v2.01)



Starting out with Casio ClassPad

15

3D Graph

- Visualise the surface $z = xy$.

Starting out with Casio ClassPad

16

DiffEq Graph

- Sketch the slope field through (0, 1) for

$$\frac{dy}{dx} = \frac{y}{x^2 + 1}$$

Starting out with Casio ClassPad

17

Interactive Diff Calc

- Investigate the slope of the graph $y = \sin x$.

Starting out with Casio ClassPad

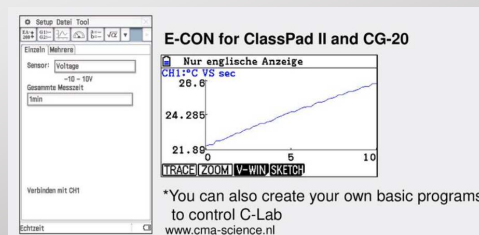
18

ECON-3

- Used in conjunction with an external data-logging device



CLAB or Casio EA200

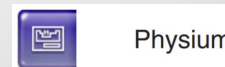


Starting out with Casio ClassPad

19

Physium

- A free Add-In App from Casio
- Download from <http://edu.casio.com>



Starting out with Casio ClassPad

20