



Kilts and CAS in both Canada and Scotland

Session 342

11:00 – 12:00pm, Sat 9 March 2013

Marriott Franklin Hall 6

Fred Ferneyhough

T³ National Instructor, Canada

2009 T³ Leadership Award Winner

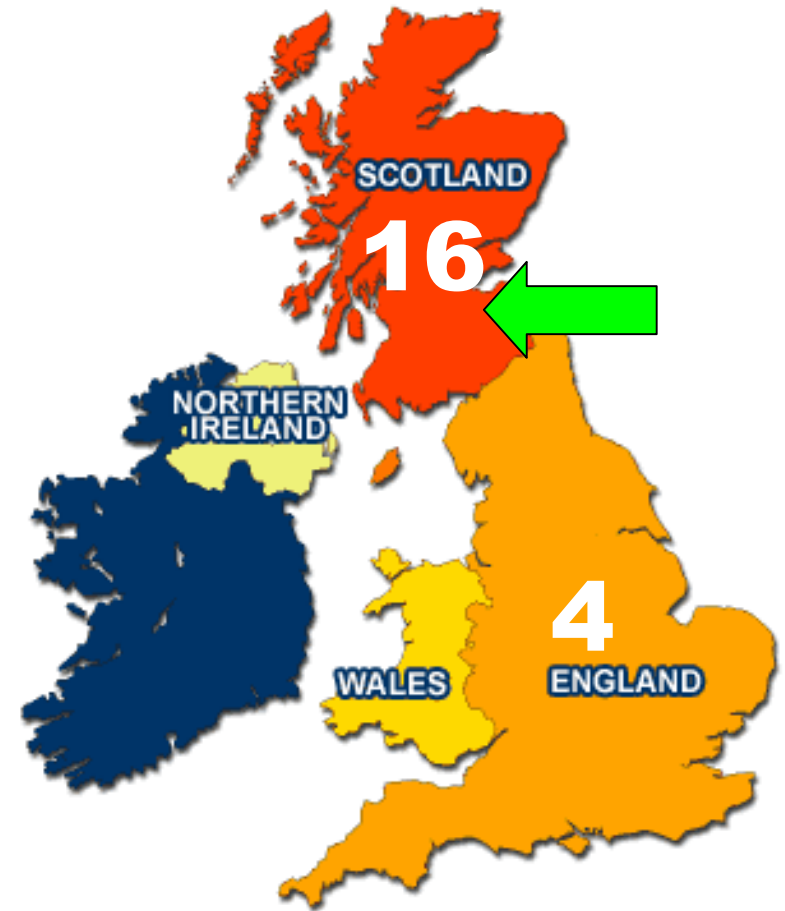
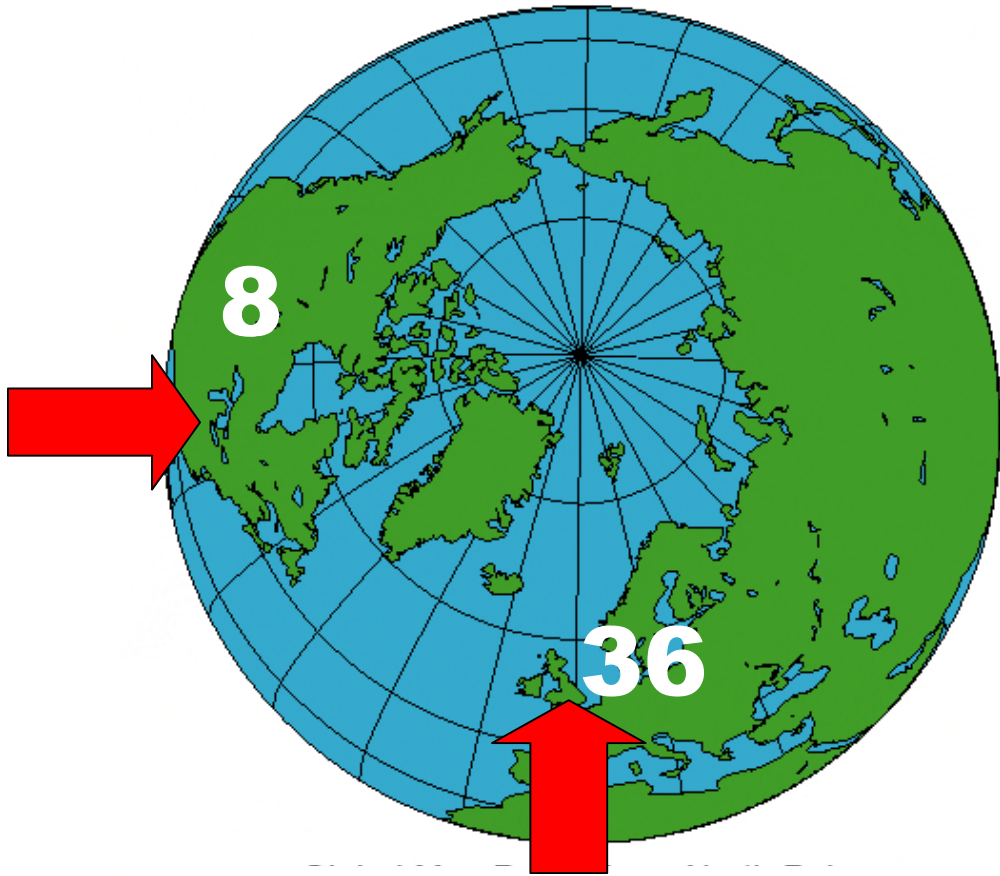
Nevil Hopley

T³ National Instructor, Scotland

Head of Mathematics

www.calculatorsoftware.co.uk/nspire

Nevil's from 3346 miles away on a Bearing of 045°





**Strictly Limited Offer of Tartan
TI-Nspire CX Cases at the end of this talk.**

This talk will have a....

Two Beginnings

Nevil & Fred introduce themselves and their 'projects'

Several Middles

Fred & Nevil will alternate delivery \approx 10/15 mins each

Three Ends

Nevil & Fred will each say final words before...

Questions from the audience!

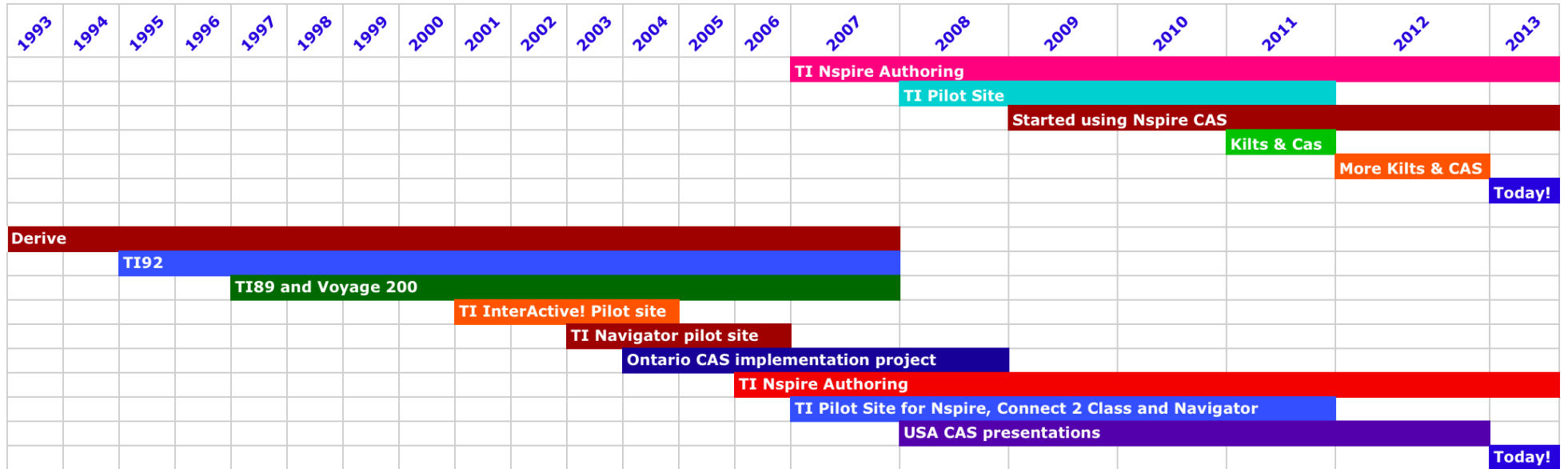
And you can download all that you see today from

www.calculatorsoftware.co.uk/nspire

Nevil's Timeline

2007	2008	2009	2010	2011	2012	2013
TI Nspire Authoring						
	TI Pilot Site					
		Started using Nspire CAS				
				Kilts & CAS		
					More Kilts & CAS	
						Today!

Fred's Timeline





parentheses

radicals

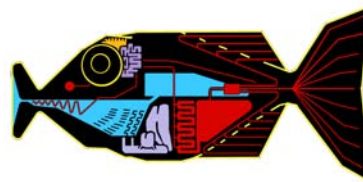
law of cosines

BEDMAS PEMDAS

elevator

slope

dilation



()

$\sqrt{5}$

$$a^2 = b^2 + c^2 - 2bc \cos A$$

() \square^n \times \div $+$ $-$
 \updownarrow



brackets

surds

cosine rule

BOMDAS

lift

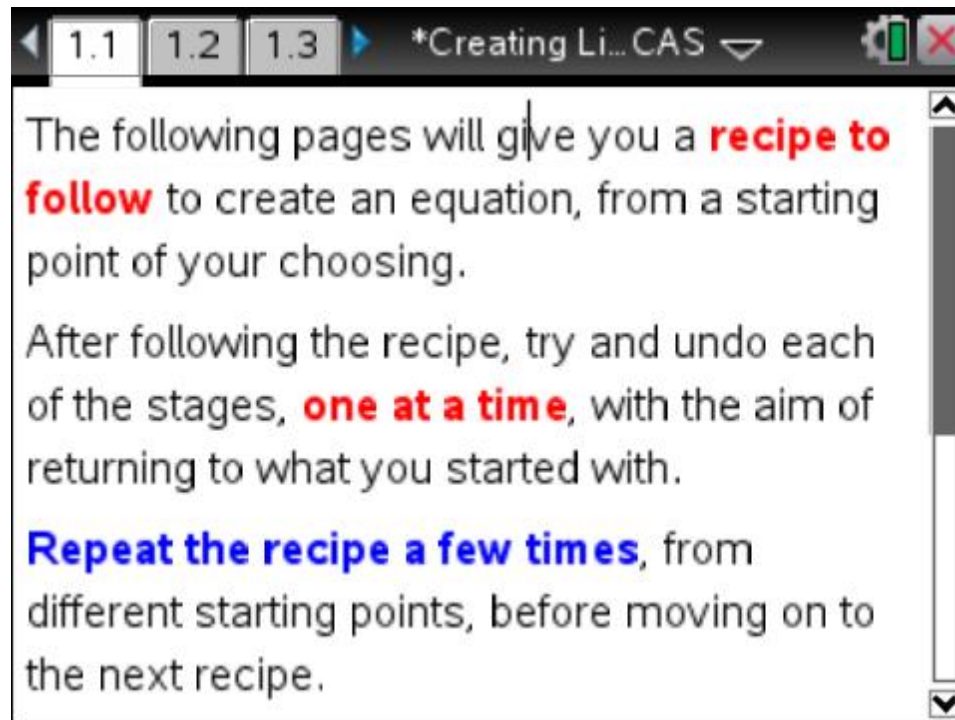
gradient

enlargement

“Secondary 1” - 12/13 Year Olds



Creating Linear Equations.tns

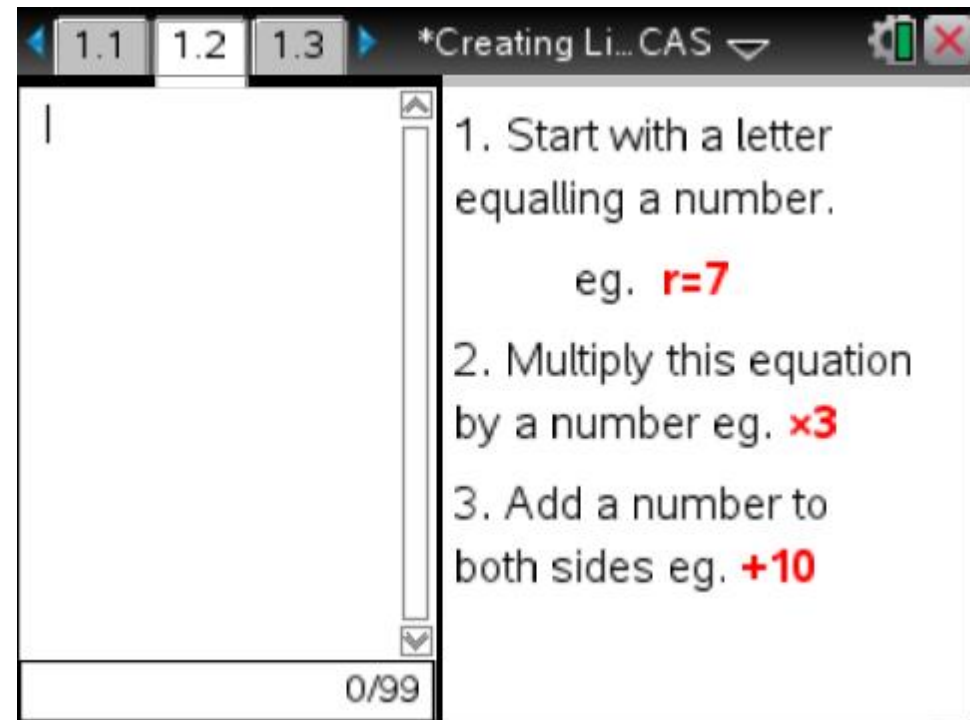


1.1 1.2 1.3 *Creating Li... CAS

The following pages will give you a **recipe to follow** to create an equation, from a starting point of your choosing.

After following the recipe, try and undo each of the stages, **one at a time**, with the aim of returning to what you started with.

Repeat the recipe a few times, from different starting points, before moving on to the next recipe.



1.1 1.2 1.3 *Creating Li... CAS

1. Start with a letter equalling a number.
eg. **r=7**

2. Multiply this equation by a number eg. **x3**

3. Add a number to both sides eg. **+10**

0/99

randomequation()

page 2.2 $ax \pm b = \pm d$

page 3.4 $Ax \pm b = ax \pm d$

page 4.1 $ax \pm b = Ax \pm d$

page 5.1 $ax \pm b = cx \pm d$

page 6.1 $ax \pm b = d - cx$

page 7.1 $b - ax = cx \pm d$

page 8.1 $b - ax = d - cx$

Now over to Fred.....

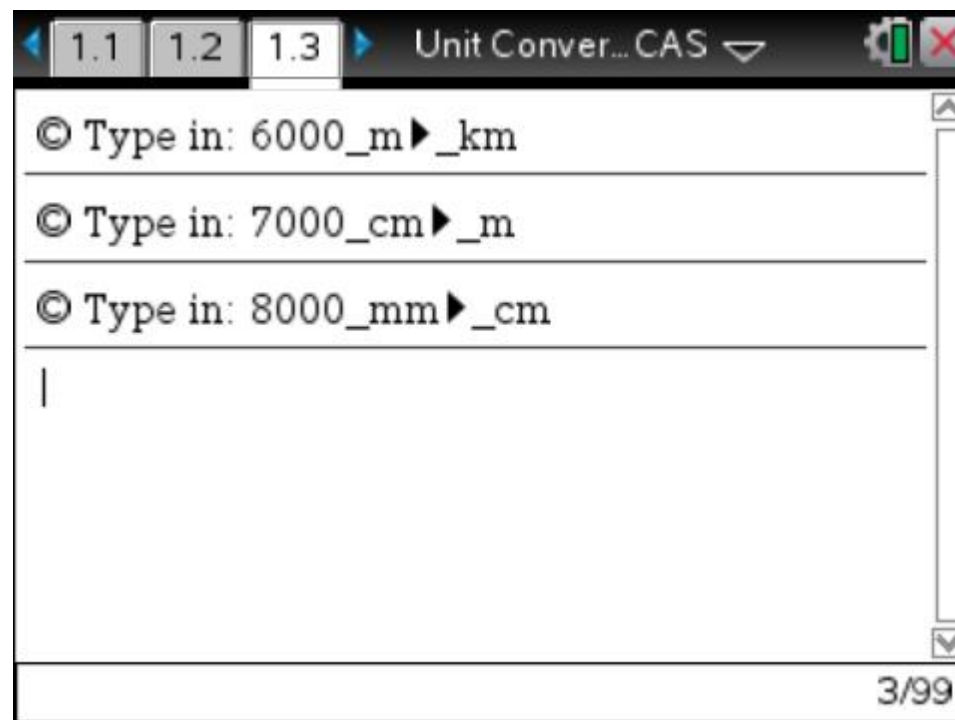
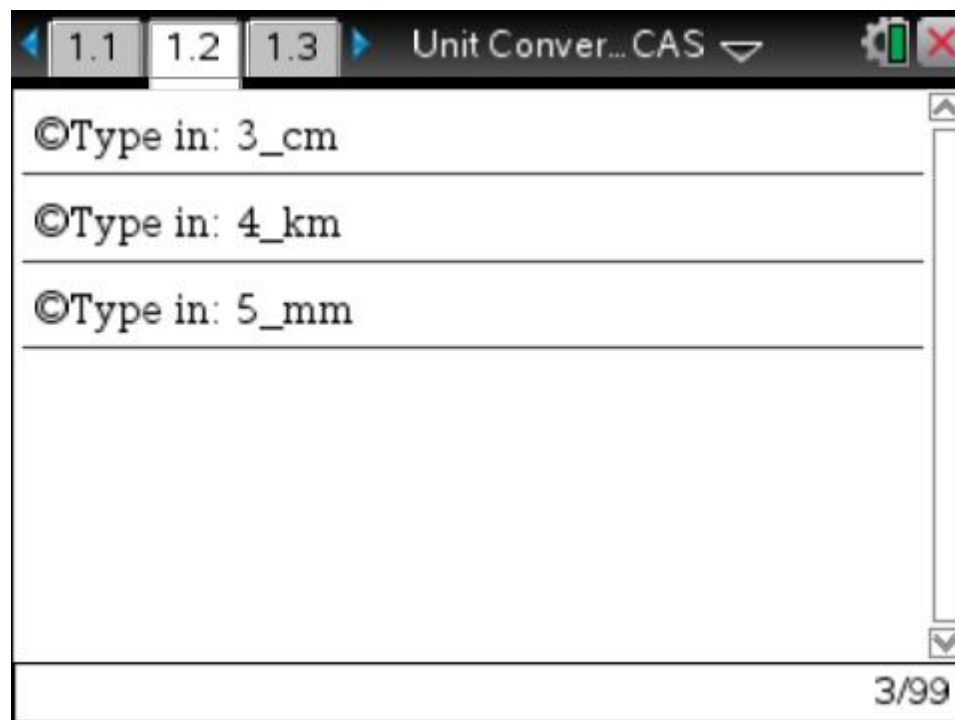
Metric Unit Conversion

thousands	hundreds	tens	units	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
kilo-	hecto-	deca-		deci-	centi-	milli-
1000	100	10	1	0.1	0.01	0.001

Metric Unit Conversion

thousands	hundreds	tens	units	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
kilo-	hecto-	deca-		deci-	centi-	milli-
1000	100	10	1	0.1	0.01	0.001
<i>km</i>			<i>metres</i>		<i>cm</i>	<i>mm</i>

Unit Conversion CAS.tns



Metric Units Mixup.tns

1.1 1.2 1.3 Metric Units Mixup

<-- Click to show or hide Answer

length = 3. mixture = 4. digits = 2.

44.cm 0.0098m 40.mm

mm, cm & m only



UNITS OF MEASUREMENT ON A SCALE OF A METER

(smallest to largest)

Smallest	Angstrom	Micron	1/1000 th of an inch	Millimeter	Centimeter	Inch	Foot	Yard	Meter	Fathom	Rod	Kilometer	Mile	Nautical Mile	Astronomical Unit	Largest
ANGSTROM/ ÅNGSTROM			MICRON			1/1000 th OF AN INCH										
(ANG)(Å)			()			(MIL)										
0.000000001m			0.000001m			0.0000254m										
MILLIMETER				CENTIMETER				INCH								
(MM)				(CM)				(IN)								
0.001m				0.01m				0.0254m								
FOOT			YARD			METER										
(FT)			(YD)			(M)										
0.3048m			0.9144m			1.0m										
FATHOM				ROD				KILOMETER								
(FATH)				(ROD)				(KM)								
1.8288m				5.0292m				1000m								
MILE			NAUTICAL MILE			ASTRONOMICAL UNIT										
(MI)			(NMI)			(AU)										
1609.344m			1852m			149597900000m										

by Nathan Guthrie

Now back to Fred.....



Only 24 in the whole world!

Suggested minimum
donation of \$15.....

All proceeds to



Want Copies of Everything?

www.CalculatorSoftware.co.uk/nspire

Thank you for coming to our talk.

Fred Ferneyhough

T³ National Trainer,
Canada & North America.

Nevil Hopley

T³ National Trainer,
Scotland & UK.