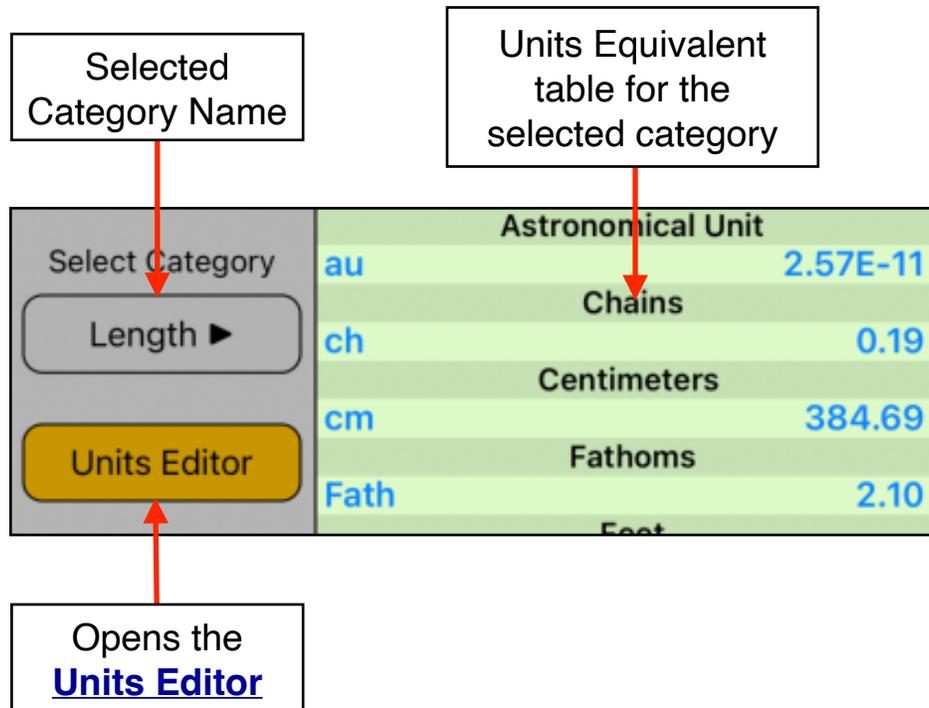# Units Conversion Menu

This menu adds a powerful and completely customizable physical units conversion calculations.

All units are defined in terms of its S.I. (meter-kilogram-second) equivalence using the following formula:

$$\text{(Value in S.I.)} = [\ \text{(Value in Unit)} - Cn\ /\ Cd\ ] \cdot Kn\ /\ Kd + Co$$

In this way, all the units conversions are defined with the values of "Cn", "Cd", "Kn", "Kd" and "Co" constants.

Touch the Select Category button to display a list with units categories available. Select the desire category from the list and all the available units in that category will be shown in the Units Equivalent table.

Simply type a value in the calculator and touch the unit row in the list to assign that value to that unit. The **Units** menu will calculate all the other units equivalent values automatically.

Optionally, units arithmetics can be performed using **[STO] [+]** or **[-]** functions in the calculator's keyboard (see the example below).

Touching the **[Units Editor]** button, the "<u>Units Editor</u>" view will be shown. There, you can fully edit the categories and units listing at your preference.

Example: Units Conversion and Arithmetic
Add 11.36 feet plus 5.75 inches plus 2 meters plus 25 centimeters and minus 0.1 chains, what is the total length expressed in yards?

Solution:
With the "Unit Conversion" menu in place, select the "**Length**" category. Then follow the next sequence:

Keystrokes	Description
11.36 touch the "**ft →**" unit	Enters 11.36 feet.
5.75 **[STO] [+]** touch the "**in**" unit	Adds 5.75 inches to the conversion.
2 **[STO] [+]** touch the "**m**" unit	Adds 2 meters to the conversion.
25 **[STO] [+]** touch the "**cm**" unit	Adds 25 centimeters to the conversion.
0.1 **[STO] [-]** touch the "**ch**" unit	Subtract 0.1 chains from the conversion.
Touch the "**yd**" unit	Recalls and display the total conversion value in yards. **Result = 4.21 (yds)**