





# Temperature Conversions

## Student Activity

Name \_\_\_\_\_

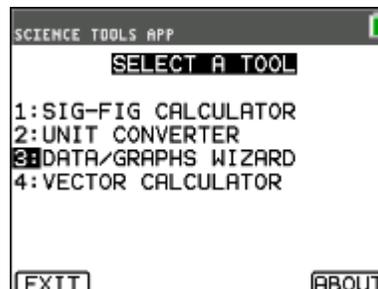
Class \_\_\_\_\_

4. Use the arrow keys to highlight the **header of L3**. This column is for kelvins. Enter the conversion equation for degrees Celsius to kelvins:  $2^{nd} [L2] + 273 [ENTER]$ . Record the values from L3 into the third column of the data table.

L1	L2	L3	L4	L5	2
0					
14					
32					
65					
98					
145					
212					
300					
-----					

L3=L2+273

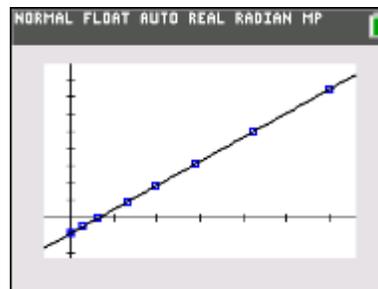
5. To compare the different temperature scales, graph your values for °F and °C using the SciTools App. Press  $[APPS]$  and scroll to highlight SCI TOOLS. Press  $[ENTER]$ ,  $[ENTER]$ . Scroll to DATA/GRAPHS WIZARD and press  $[ENTER]$ .



6. Press  $[WINDOW]$  to select PLOT DATA. Press  $[y=]$  to select SCATTERPLOT. Select L1 as the INDEPENDENT Variable and press  $[ENTER]$ . Select L2 as the DEPENDENT Variable and press  $[ENTER]$ .



7. Press  $[apps]$  and choose a line fit. Highlight LIN REG for a linear regression, and press  $[ENTER]$ . Your graph should look similar to the one shown here. You can use this graph to convert other temperature values. Press  $[TRACE]$  and use the left and right arrow keys  $[←]$   $[→]$  to move the cursor along the linear model. Ordered pairs along the bottom of the screen give you equivalent temperatures on the Fahrenheit and Celsius scales.





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### Data Table

Degrees Fahrenheit (°F)	Degrees Celsius (°C)	Kelvin (K)
0		
14		
32		
65		
98		
145		
212		
300		

### Data Analysis

1. In the graph below, what is the temperature in °F? What is the temperature in °C? (Round to one decimal place.)

