Efficient GRApHS

Learning POWER®
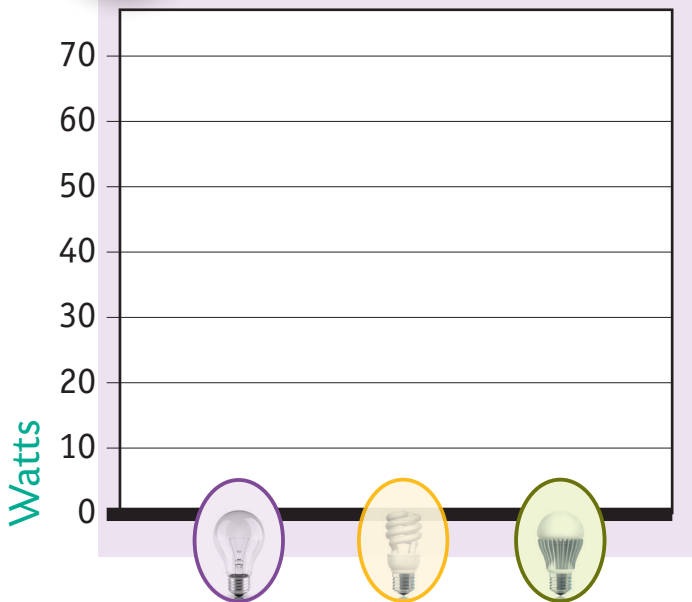*Energy Education in the Classroom*

STEP 1
Using data from your recording sheet, transcribe the watts consumed by each bulb – *round to the nearest whole number.*
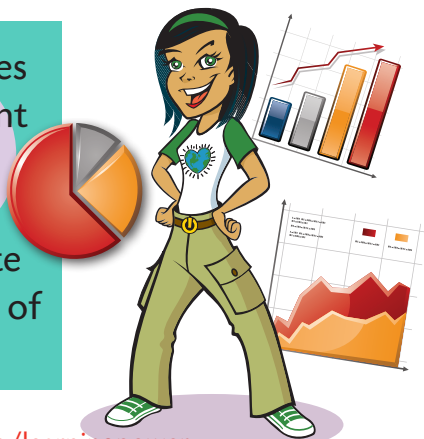
W	Incandescent	CFL	LED
Watts			

STEP 2
Using the space below, make a bar graph of the above data.

Watts

70
60
50
40
30
20
10
0

STEP 1
Using data from your recording sheet, transcribe the temperatures of each bulb – *round to the nearest 10.*

°C	Incandescent	CFL	LED
Temp #1			
Temp #2			
Temp #3			

STEP 2
Using the space below, make a line plot of the above data. Be sure to label your lines.

Temperature °C

160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0

Temp #1   Temp #2   Temp #3

What makes the different graph types most appropriate for each set of data?

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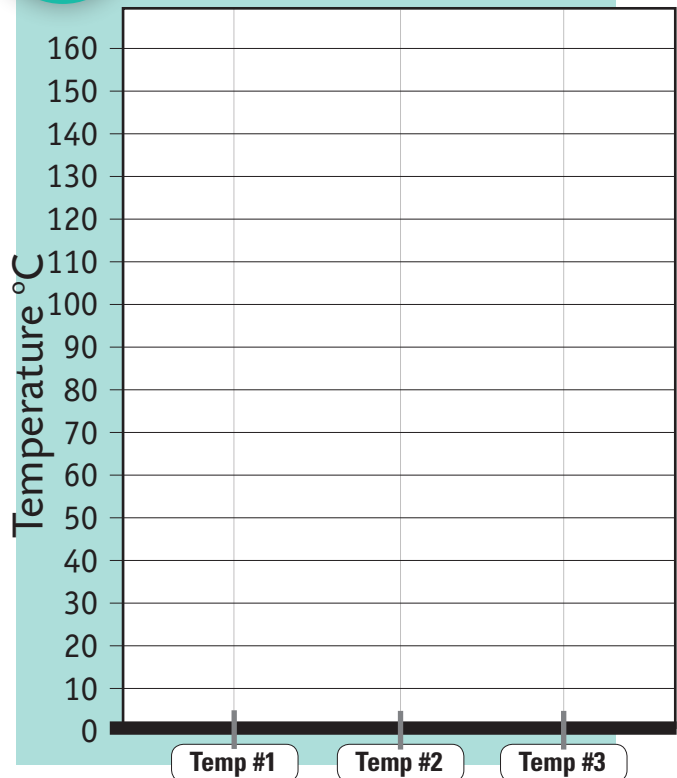
Efficient SUDOKU

Step #1: Read the energy efficiency facts and solve the subtraction problems within the geometric shapes.

Step #2: Fill in the shapes within the puzzle by matching numbers found within the energy efficiency facts or the solution to the subtraction problem.

Step #3: Solve the puzzle by filling in the grid so that every row, column and each of the six colored sections contain ALL the numbers from 1 to 6.

Each thermostat degree increase during winter or decrease during summer increases your cost of heating/cooling by 3 percent!

$$\begin{array}{r} 132 \\ -127 \\ \hline \end{array}$$

The average life span of a CFL is 4 years.

An average house with all CFL bulbs will spend about $6 per month on electricity for lighting.

$$\begin{array}{r} 1201 \\ -1199 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ -54 \\ \hline \end{array}$$

Taking a 5-minute shower (or less) saves energy on water heating!

EXTENSION: Draw a dotted line through each geometric shape to show a line of symmetry. Do some shapes have more than one line of symmetry?

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