

### CFL vs. Incandescent Cost Comparison: Lesson 2

“Why should I change my light bulbs to CFL’s?  
That is a great question! To get the answer, we  
need to look at the life cycle cost for light bulbs.

What is the life cycle cost? The life cycle cost is  
the initial cost of the appliance (in our case a light  
bulb) AND the cost of energy needed to use the  
appliance over its life.

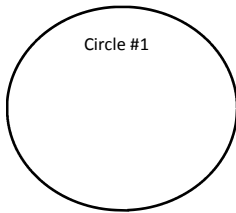
Initial cost of light bulb + Energy costs (electricity)  
= Life Cycle Cost of light bulb

Use the chart at the right to complete the  
equations below to determine which light bulb  
has the lowest life cycle cost and the greatest  
savings to provide 12,000 hours of light.

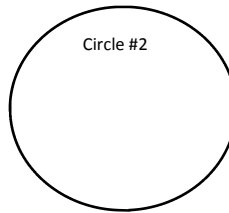
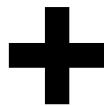
Bulb Specifications	Incandescent	Compact Fluorescent (CFL)
Light Output (lumens)	870 lumens	900 lumens
Life Expectancy (hours)	1,000 hours	12,000 hours
Energy Used (watts)	60 watts	13 watts
Cost per Bulb (dollars)	\$.50	\$1.50
Number of Bulbs needed for 12,000 hours of light	12	1
Cost of Light Bulbs for 12,000 hours of light	\$6.00 (circle 1)	\$1.50 (circle 3)
Cost of Electricity for 12,000 hours of light	\$79.00 (circle 2)	\$17.00 (circle 4)

Use the table above to complete the chart.

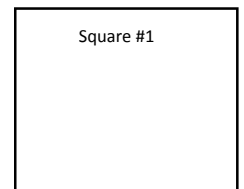
Incandescent



Cost of Incandescent Bulbs

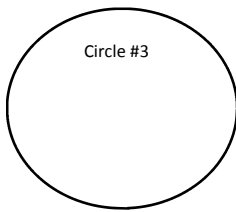


Cost of Electricity

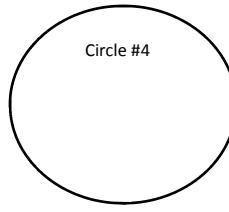
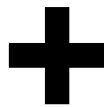


Incandescent Life Cycle Cost

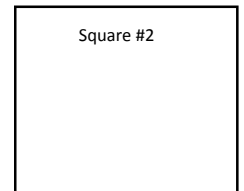
CFL



Cost of CFL Bulbs

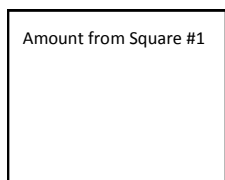


Cost of Electricity

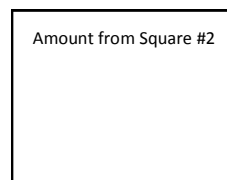


CFL Life Cycle Cost

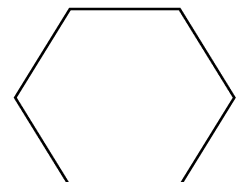
Savings



Incandescent Life Cycle Cost



CFL Life Cycle Cost



Life Cycle Savings for replacing one IL with a CFL