

# Example school lighting problem

I have twelve light fittings in a classroom and they are of the inefficient “T12” lamp type. How can I change them to LED and what would the benefit be?



Assume each existing light is;

- 5ft (1500mm) in length
- It gives off 6250 lumens (Lm) of light. (how bright they are)
- Wattage is 85 W (but actually consumes 102 W) Power consumption
- Electricity costs 0.15p/kWh

1. Research some other lights which could be used.
2. How much energy savings would be achieved per day?
3. Could you find out how much money could be saved per year and if this was your school, what would be the total saving for every classroom?
4. How much would it cost to buy?
5. (Stretch) How long would it take to payback my investment
6. Who would I talk to next to make it happen?
7. What will be your process for success? Look back at the Tesco example to help you.