

Science & Technology 404
POWER AND ENERGY

01. What is power?
What are the units for power?
02. What is energy?
What are the units for energy?
03. What is the formula for power?
04. What is the formula for energy?
05. How much energy in Joules is used by a 100 W light bulb in 2 hours ?
06. How much energy in Joules is used by a 1500 W toaster each second?
07. Calculate the cost of using a 150 W sound system for 2 hours if the cost is \$0.066 per kWh?
08. What will it cost to use a 1200 W hair dryer for 20 minutes if the cost is \$0.066 per kWh?
09. A 100 W light bulb is left on all year. What will it cost at \$0.066 kWh?
10. How much energy in kW.h is used by a 400 W T.V. while watching a 2 hr movie?
11. How long will it take a 1200 W hair dryer to use up 10 kJ of energy?
12. A clock radio uses up 350 kJ of energy each day.
What is the power rating of the radio?