ENERGY FOR SCHOOLS

origin

Energy calculations

Name: _____

Did you know that electricity is measured in kilowatt hours and gas is measured in megajoules?

1. Research 'energy conversion' on the Internet to complete the following conversion table.

Conversion table	
1 kilowatt (k) =	watts (W)
1 kilowatt hour (kWh) =	watt hours (Wh)
1 megawatt hour (MWh) =	kilowatt hours (kWh)
1 kilowatt hour (kWh) =	megajoules (MJ)
1 gigajoule (GJ) =	Joules (J)

Now answer the following questions.

2. If a light globe runs for 24 hours a day, 365 days a year, how many hours will it run?

24 hours/day x 365 days/year =
_____ hours/year

3. A common light globe uses 60 watts per hour. How many watt hours of electricity will the light globe use in one year?

_____ hours/year (from question 2)
x 60 watts = _____ Wh/year

4. Now convert watt hours to kilowatt hours.

_____ Wh/year (from question 3)
÷ 1000 = _____ kWh/year.