

Eco Generation School Kit



ENERGY CALCULATOR

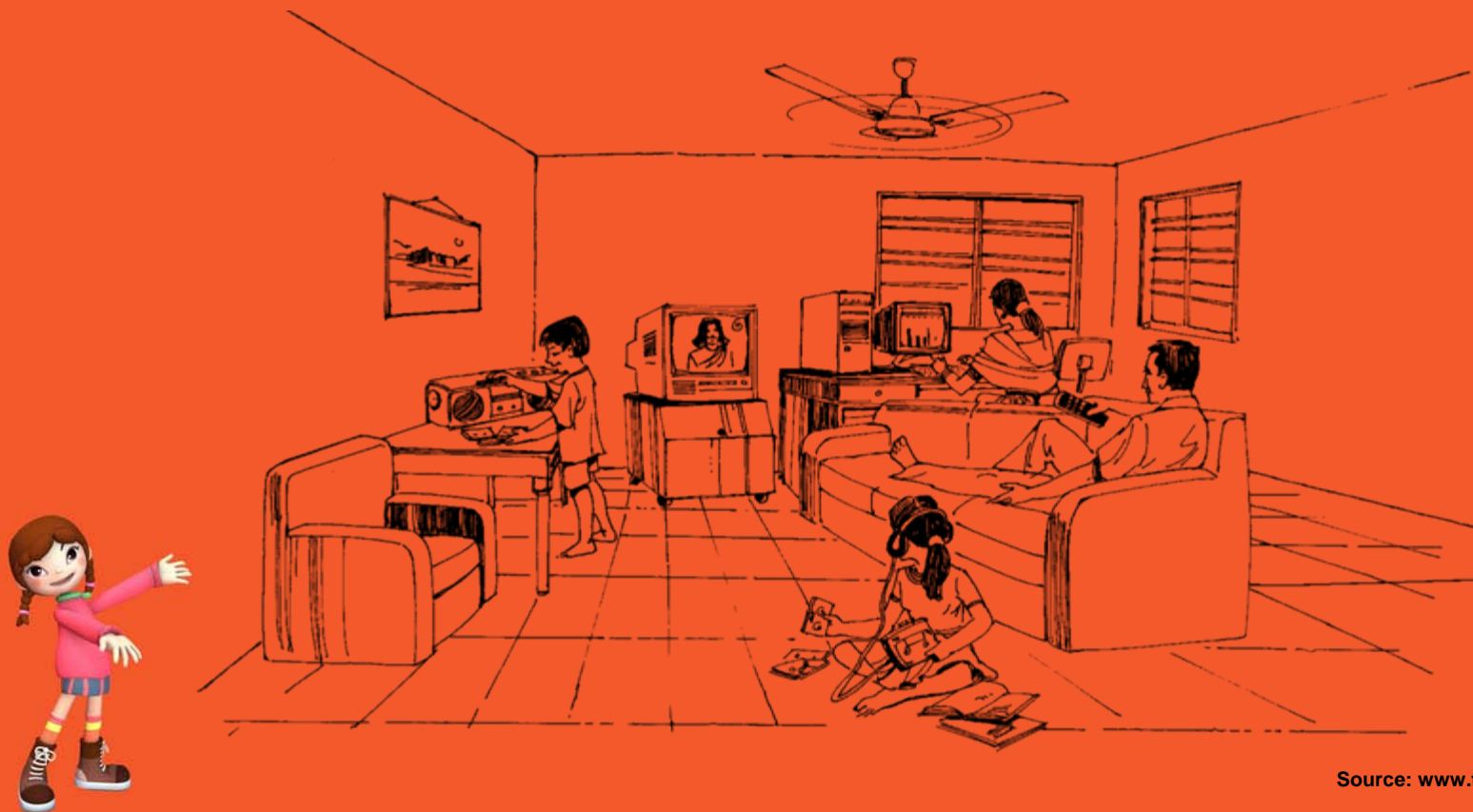
**This Power Point presentation
is a part of the
Samsung Engineering's
Eco-generation School Kit**



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How much does it cost to run and Electrical Appliance?



Source: www.freedigitalphotos.net



Source: www.freedigitalphotos.net

Understanding the Electrical Units

HD 4424

/00/A 220-240V~ 700W

50/60Hz



Source: www.freedigitalphotos.net

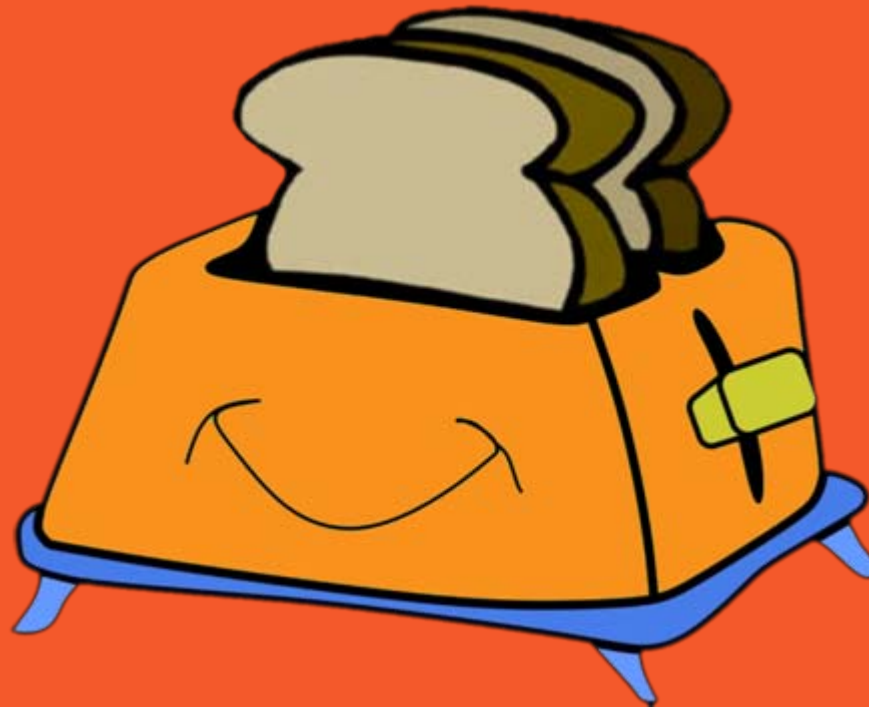
Learning the Electricity Language

- **Ampere(A)**- It is defined as the rate at which electricity flows through a wire. Ampere is the unit to calculate the electric current(it is similar to other measuring units, for example kilogram is used to calculate the weight of an object)
- **Volts(V)**- This is the pressure that causes electricity to flow through a wire
- **Wattage(W)**- This is the amount of power or energy that is utilized per second
- **Hertz(Hz)**- This is the number of times the generator spins in a cycle to produce electricity in one second



How Much Do I Pay?

Let's calculate the cost for using a toaster for one hour.



1 Kilowatt (KWh) is the Amount of Electricity Consumed By An Appliance in One Hour

1000 W = 1KW
700 W = 0.7 KWh





Per Unit Cost of Electricity is = 0.1 USD



Therefore, Total Cost for Running A
Toaster for An Hour Will Be

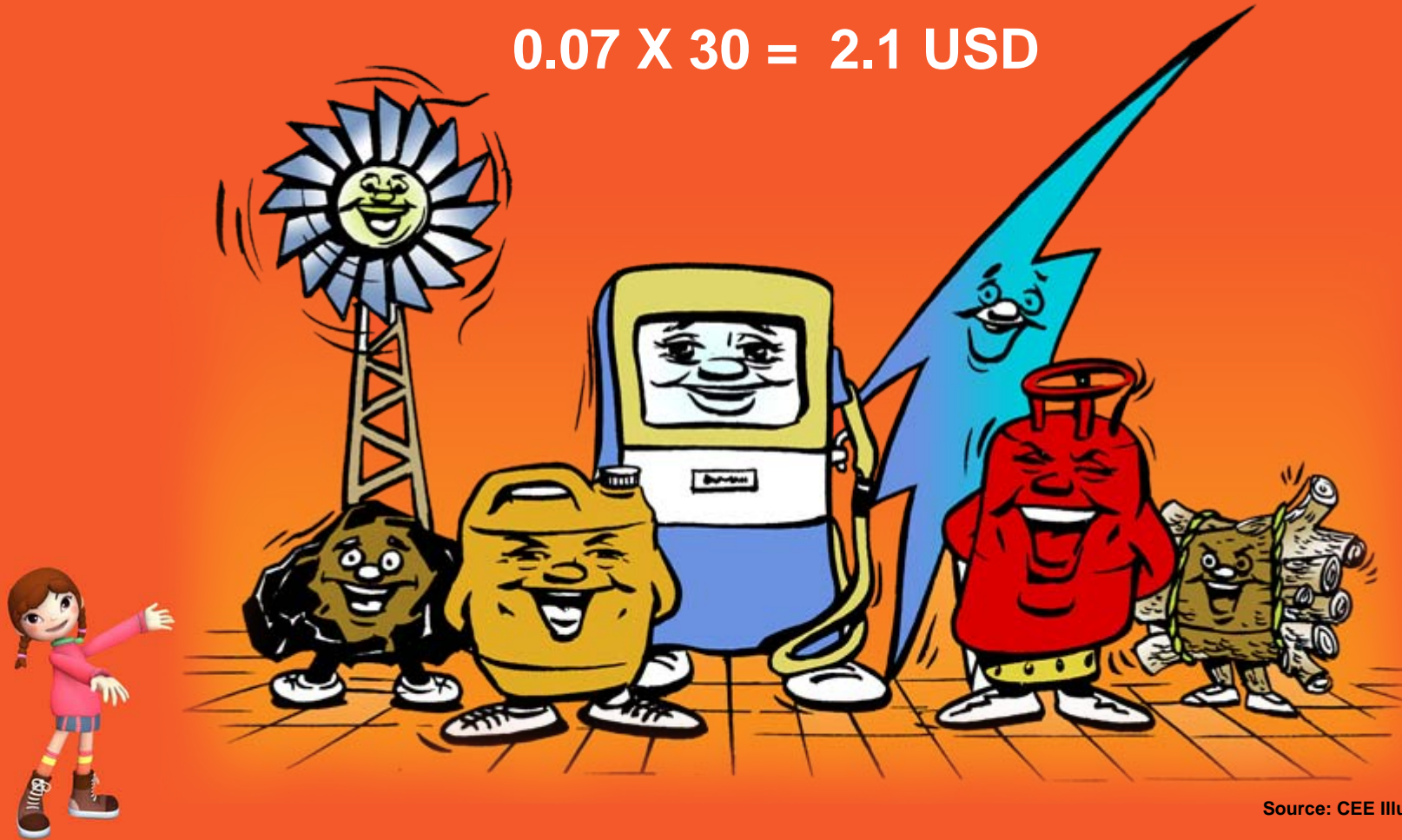
$$= 0.7 \times 0.1 = 0.07 \text{ USD}$$



Source: CEE Illustration Bank

Total Cost for Running
a Toaster for 30 Days =

$$0.07 \times 30 = 2.1 \text{ USD}$$



Source: CEE Illustration Bank

CREDITS

Programme Team

Rajeswari Gorana
Jyoti Gopinathan
Erika Lim
Christy Lee
Jetal Agnihotri

Guidance

Madhavi Joshi
Mamata Pandya

Design Team

Hardik Raval
Hitesh Vaza

Illustrations

Hemal Solanki
Jogendra Rajora
Priyal Patel
Chryselle Fernandes

Support Services

Sumegha Parmar

