



To: Subject Advisors

: Teachers

: Parents and Caregivers of NS Tech Learners

Topic: Electricity consumption in a household

Message Objective(s):

- To understand the differences in energy consumption from different appliances
- To compare consumption of different appliances
- To discuss means of saving electricity

The South African energy grid has lately been a subject of discussion. Our learners surely have experienced massive power cuts and load shedding. Whilst different reasons are given for the power outages, learners should understand careful use of electricity in the households.

Messages and advertisements are aired on a daily basis on the importance of saving electricity. To begin with learners should understand that different appliances have different consumption rating. The rating is measured in Watts for example electrical bulb have a consumption of 15W, 60W or even 100W. The higher the rating the higher the consumption.

Activity 1

In this activity learners should **compare** consumption from different appliances they find in the home. Learners should be guided on how to find the consumption rating.

NOTE: Learners should allowed to choose any appliance of their choice and complete the table below.

Appliance	Consumption Rating	Rank
Television		
Kettle		
Stove		
Microwave		

- Allow learners to **rank** the appliances from lowest to highest
- Is it a good thing to leave appliances operating for long hours?
- Discuss** ways of saving electricity.

During this activity learners' curiosity can be simulated through the interactions with common devices in the household. Allow learners to be inquisitive and further explore and interact with the gadgets.

Thank you.

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Reference: <https://www.rapidtables.com/calc/electric>

