

# Energy Web Workout 2 | Measuring Electricity

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## WEBSITE

<http://www.switchedonkids.org.uk/fun-and-learning/socket-overload>

## OBJECTIVE

Investigate the topic of electricity and electrical safety in the home.

## ASSIGNMENT

Before getting started, you will want to understand how electrical current is measured.

Electrical current is measured by the rate at which it flows per second. This rate is referred to as amperes or *amps*. The symbol for amps is the letter A.

Electrical power is measured in units of power, or *watts*. The symbol for watts is the letter W.

Visit the link above to answer the following questions.

## QUESTIONS

Let's begin by clicking on *Get Started*. Research how many amps or watts various appliances use by dragging the picture of the appliance into *drag item here to plug in*. How many amps or watts does each of the following require?

1. Microwave = \_\_\_\_\_ amps (A) and \_\_\_\_\_ watts (W).
2. Vacuum = \_\_\_\_\_ amps (A) and \_\_\_\_\_ watts (W).
3. HD television = \_\_\_\_\_ amps (A) and \_\_\_\_\_ watts (W).

Now it's your turn!

Experiment with different combinations of appliances plugged in at the same time.

Which four items would you plug in reach 1000 W?

- 1)
- 2)
- 3)
- 4)

**Parents:** The link for this activity serves to enhance the information located in the *Student Workbook*. The website chosen for this assignment provides realistic, current information, while contributing to your student's knowledge and understanding about the topic.