

## Lesson 1

# Teacher Notes – Electricity Safety Video

### Outcomes Written In line With The New South Wales Board of Studies

Personal Development, Health and Physical Education Syllabus	Science & Technology Syllabus	English Syllabus
<u>Stage 3 Outcome</u> SLS 3.13 • Describes safe practices that are appropriate to a range of situations and environments.	<u>Stage 3 Outcome</u> PP S3.4 • Identifies and applies processes involved in manipulating, using and changing the form of energy.	<u>Stage 3 Outcome</u> TS3.4 • Evaluates the organisational patterns of some more challenging spoken texts and some characteristic language features.

**Lesson Objective:** Students will gain a basic understanding of how electricity works and the dangers associated with electricity and how to avoid dangerous situations related to electricity.

### Background Information

The Electrical Safety Video (15 Minutes) gives you information on how electricity works and then moves onto sequential electrical safety situations. This video will explain key electrical safety issues using real life situations, diagrams and simple terminology for students in grades 5 – 6.

**Resources:**

- Electricity Safety Video.
- Picture 1 – Electrical Appliances.
- Worksheet – Lesson 1 Electricity Safety Video.

### Lesson Plan Outline

1. Discuss Picture 1 – Electrical Appliances. Ask: What do you know about electricity?
2. Play the video.
3. Hand out the worksheet – Lesson 1 Electricity Safety Video.

### Answers to worksheet:

- a. Electricity is the flow of electrons through conductors. True
- b. The usual way to make electricity is by moving a magnet across an insulator. False  
The usual way to make electricity is by moving a magnet across a conductor.
- c. When electricity leaves the high voltage lines it increases in power by the time it gets to your house. False  
Electricity travels along the power lines and the voltage is reduced as it passes through transformers, so by the time it gets to your house it is at 240 volts.
- d. Electricity will only flow if it can travel in a circuit. True
- e. A switch breaks the circuit. True
- f. Water is a conductor of electricity. True

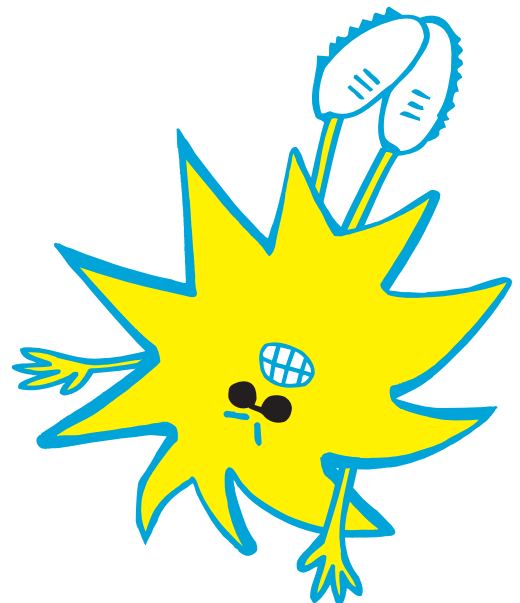
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- g. Our body can make a circuit. True
- h. A damaged electrical lead should be repaired by an electrician. True
- i. If you touched the exposed wires of a light globe you would probably form part of a circuit to earth. True
- j. If you are in water and an electrical appliance falls into the water you should pick it up. False
- You should not move and call for someone to turn the appliance off at the power point.  
Better still, keep the appliance well away from the water in the first place.

4. Share answers for 2 and 3 to gain students understanding of the video.

5. Discuss the safety message at the bottom of the worksheet “Be safe around electricity so Zappa doesn’t spoil your fun.”



# Lesson 1 – Electricity Safety Video

What do you know about electricity? Watch the video and answer the questions.



Name : \_\_\_\_\_ Class : \_\_\_\_\_ Date : \_\_\_\_\_

## 1. Circle True or False

- |   |            |
|---|------------|
| a. Electricity is the flow of electrons through conductors  | True/False |
| b. The usual way to make electricity is by moving a magnet across an insulator.                           | True/False |
| c. When electricity leaves the high voltage lines it increases in power by the time it gets to our house. | True/False |
| d. Electricity will only flow if it can travel in a circuit.  | True/False |
| e. A switch breaks the circuit.   | True/False |
| f. Water is a conductor of electricity.   | True/False |
| g. Our body can make a circuit.   | True/False |
| h. A damaged electrical lead should be repaired by an electrician.  | True/False |
| i. If you touched the exposed wires of a light globe you would probably form part of a circuit to earth.  | True/False |
| j. If you are in water and an electrical appliance falls into the water you should pick it up.            | True/False |

## 2. List 5 things from the video that you already knew about electricity and safety.

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## 3. List 5 things from the video that you learnt about electricity and safety.

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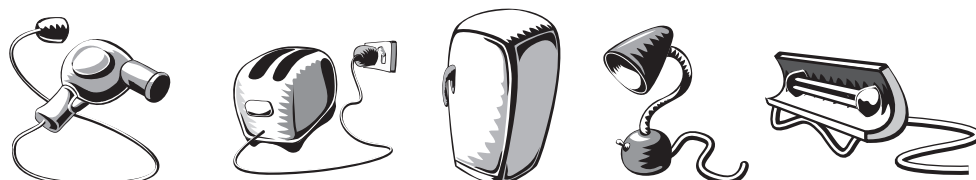
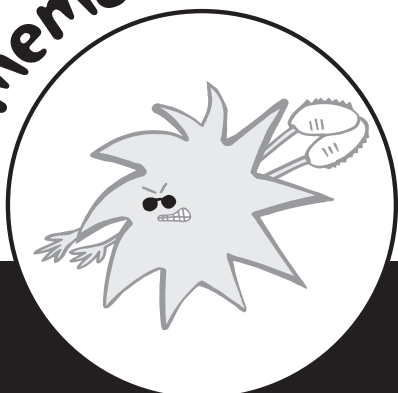
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**remember**



**be safe around electricity so Zappa doesn't spoil your fun.**

**Students will gain a basic understanding of:**

- How electricity works
- The dangers associated with electricity
- How to avoid dangerous situations related to electricity.