



**Switch on to safety**

**Electricity Safety Activities.**

For more electricity safety information visit [ausgrid.com.au](http://ausgrid.com.au)



# Switch on to safety

## Early Stage 1

### Outcomes

PDHPE Outcomes	Indicators
SLES1.13 Demonstrates an emerging awareness of the concepts of safe and unsafe living. DMES1.2 Identifies some options available when making simple decisions.	<ul style="list-style-type: none"><li>• indicates a number of possible actions for safety.</li><li>• describes safe places to play.</li><li>• nominates people who can help in particular situations.</li><li>• chooses between safe and unsafe situations.</li></ul>

Most of the time, electricity is safe. But sometimes a dangerous electrical situation can happen and we risk being electrocuted if we don't know what to do. We have to be smart and we have to be careful or we could be in for a big shock!

### Background notes



### Outside safety

We all like to play outside, but there are electrical hazards that we need to know about. Electricity poles and wires are all around us. They can be above us, next to us and even below us. Play in open spaces away from electricity poles, towers and powerlines.

#### Remember:

- If you fly a kite and it gets caught in the overhead powerlines, live electricity could travel down the string and seriously hurt you. So be careful!
- Never climb a tree that is near powerlines. Look up before you climb!
- After a storm if you see fallen powerlines stay well clear of them. There is a strong chance they are still alive.

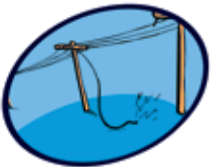
# Switch on to safety

## Early Stage 1



### Safety around water

Water can conduct electricity because electrons can flow by hitching a ride on atoms and molecules in the water. Water contains dissolved substances such as salt. These greatly increase the ability of water to conduct electricity. That's why electricity passes easily through our bodies – because our bodies contain water and salt. This is also why it's important to keep water away from electrical appliances.



### Electrical emergencies

We all hope that we are never in an emergency involving electricity, but if we are, it's important to know what to do. If you come across an emergency involving electricity:

- Ensure your own safety.
- Turn the power off at the power point and remove the plug (if you are able to do so).
- Get an adult.
- Ring 000.

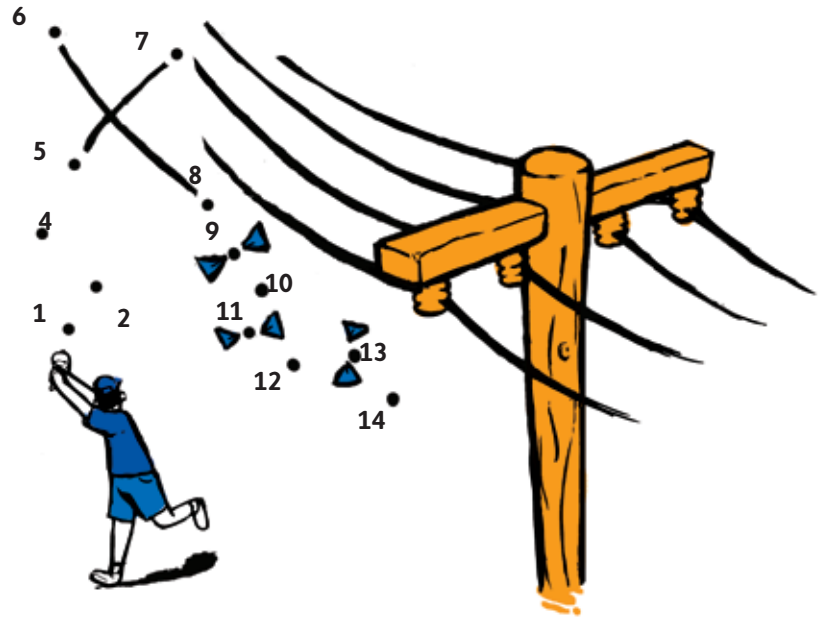
# Switch on to safety

## Early Stage 1

### Activity 1

Discuss safe places to fly a kite.

Complete the dot-to-dot.

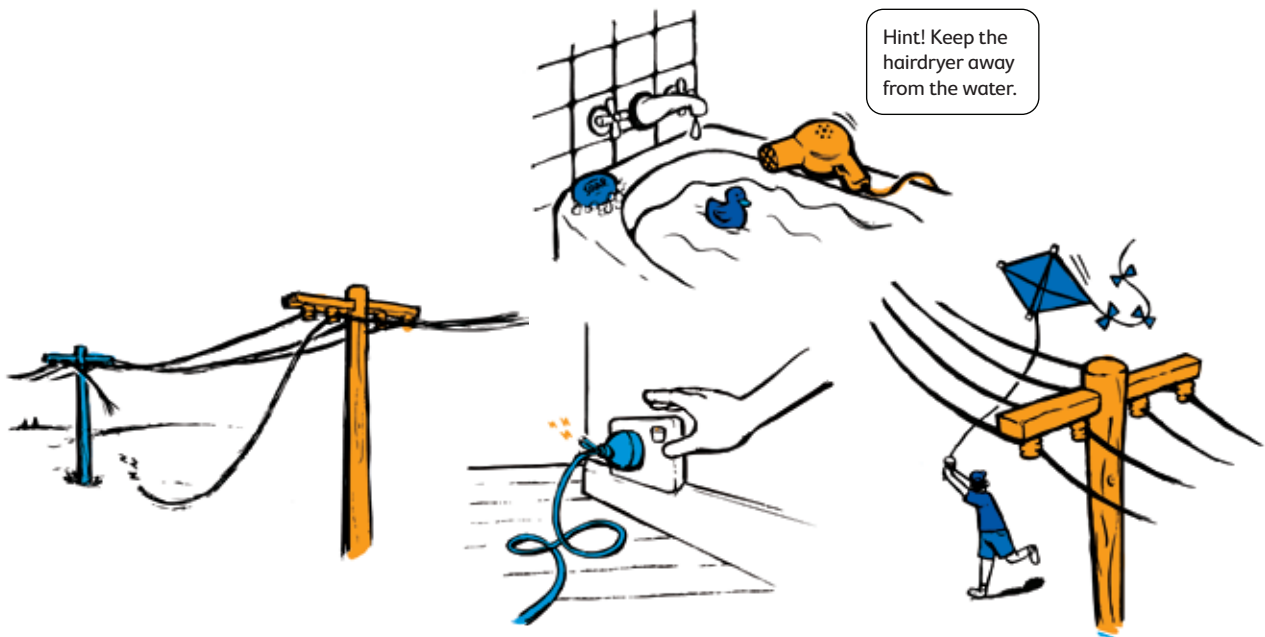


### Remember!

Be careful around electricity poles and wires when you play!

### Activity 2

What would you do in these situations?



### Remember!

If you see a dangerous situation, tell an adult!

# Switch on to safety

## Early Stage 1

### Activity 3

Discuss what you would do in the case of an emergency.

Colour in the phone number to ring and finish the sentence.



Hint!  
Ring 000  
for help!

I will call \_\_\_\_\_

### Remember!

Know what to do in an electrical emergency.

### Activity 4

Draw a safe place to play away from electricity.

### Remember!

Be safe!

# Switch on to safety

## Stage 1

### Outcomes

PDHPE Outcomes	
SLS1.13 recognises that their safety depends on the environment and the behaviour of themselves and others.  DMS1.2 Recalls past experiences in making decisions.	<ul style="list-style-type: none"><li>• role plays – what to do in an emergency, e.g. dial 000.</li><li>• describes dangerous things they can see, reach, touch and ease of dealing with them, e.g. electrical appliances.</li><li>• predicts consequences and options in order to make a decision.</li></ul>

Most of the time, electricity is safe. But sometimes a dangerous electrical situation can happen and we risk being electrocuted if we don't know what to do. We have to be smart and we have to be careful or we could be in for a big shock!

### Background notes



### Dangerous situations

Always be on the look out for dangers in and around your home. This could be anything from a faulty electrical lead to a 'stacked' power point – one with too many plugs in it. These situations could be life threatening and an electrician should be called in to fix them.

#### Remember:

- Faulty appliances and damaged electrical leads should be disconnected at the power point and fixed or replaced by an electrician.
- Never stack power points. Use a power board or have an extra power point installed. Stacked power points can cause fires.
- Before you or your family do any major digging in the yard you should get Mum or Dad to ring Dial Before you Dig on 1100 to make sure there are no underground cables near your property. If you hit one you could be electrocuted, as well as possibly interrupting the power to your suburb.

# Switch on to safety

## Stage 1



### Safety around metal

We all come into contact with metal objects on a daily basis – turning on a tap, playing with our computers and toys and even using the fridge. Because metal conducts electricity, you have to be very careful when you use metal items.

#### Remember:

- Never put a metal object, like a knife into a toaster. It is very dangerous!
- Never put anything in a power point that's not meant for it. Electricity will travel right up the metal object into your body.
- Be careful when climbing a ladder at home. The powerlines connected to your house are usually protected, but they can be damaged by rubbing against the gutter or a tree, or through exposure to the sun. If a person is on a metal ladder and touches the exposed line, the electricity will travel through their body to the earth.

# Switch on to safety

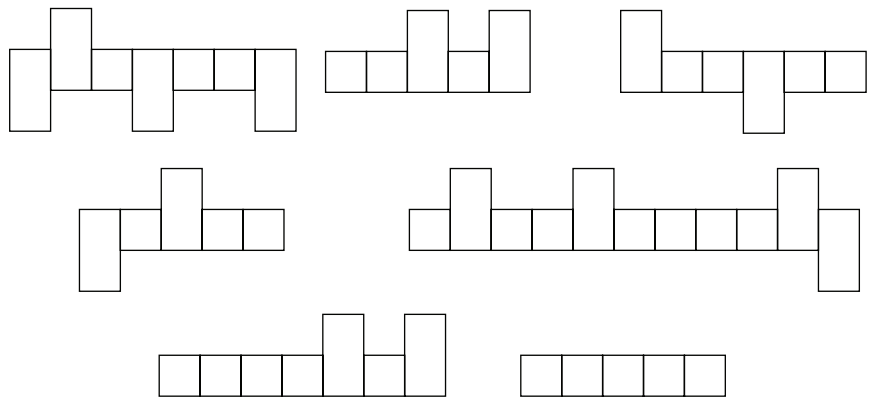
## Stage 1

### Activity 1

Discuss safe places to fly a kite.

Write the words in the word frames.

metal  
poles  
wires  
electricity  
playing  
careful  
danger



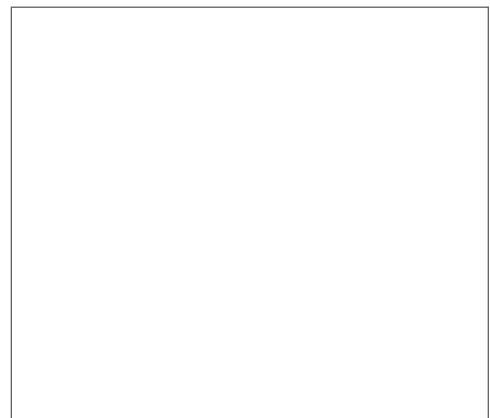
### Remember!

Be careful around electricity poles and wires when you play!

### Activity 2

Discuss what to do in case of an electrical emergency.

1. What phone number do you ring if there is an electrical emergency? \_\_\_\_\_
2. Who would you get to help?  
\_\_\_\_\_
3. Will you go near the broken wire? \_\_\_\_\_
4. Draw a picture of you ringing 000? \_\_\_\_\_



### Remember!

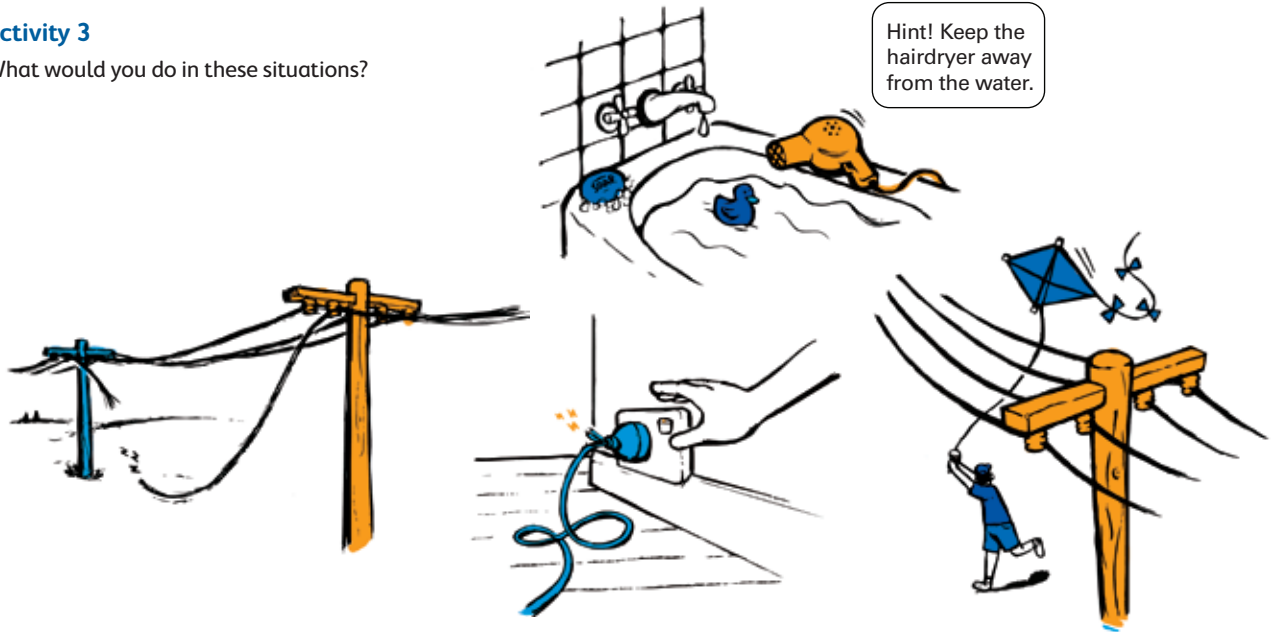
Know what to do in an electrical emergency.

# Switch on to safety

## Stage 1

### Activity 3

What would you do in these situations?



### Remember!

If you see a dangerous situation, tell an adult!

### Activity 4

Draw a safety message about one of the electrical hazards in Activity 3.

A large empty rectangular box with a thin black border, intended for a student to draw a safety message about one of the electrical hazards shown in Activity 3.

### Remember!

Be Safe!

# Switch on to safety

## Stage 2

### Outcomes

PDHPE Outcomes	Indicators
<p>SLS2.13 Discusses how safe practices promote well being.</p> <p>DMS2.2 Makes decisions as an individual and as a group member.</p>	<ul style="list-style-type: none"><li>• identifies behaviours that are risky and identifies people who can help.</li><li>• identifies the potential hazards of various appliances in their environment.</li><li>• creates a poster/video on a particular safety issue, e.g. safe play away from electrical installations.</li><li>• discusses advantages and disadvantages of options with friends when making decisions, e.g. where to play safely.</li></ul>

Most of the time, electricity is safe. But sometimes a dangerous electrical situation can happen and we risk being electrocuted if we don't know what to do. We have to be smart and we have to be careful or we could be in for a big shock!

### Background notes



### Dangerous situations

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# Switch on to safety

## Stage 2

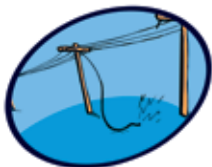


### Electricity substations

You will find electricity substations and power equipment all over the place. They are behind fences, in buildings, or on the side of the footpath, and most have danger signs. Substations transform the voltage generated at power stations so it can be distributed to homes, schools and businesses. Sometimes they are near parks and play areas. Substations are safe, but you must follow the rules.

#### Remember:

- Sometimes it's tempting to ignore signs and fences around substations. Remember the warnings are there for everyone's protection, so make sure you follow them!
- Substations contain special equipment with invisible hazards. You don't even have to touch anything to get hurt. Just being too close to some substation equipment can be dangerous and may even kill you!



### Electrical emergencies

We all hope that we are never in an emergency involving electricity, but if we are, it's important to know what to do.

If you come across an emergency involving electricity:

- Ensure your own safety.
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- Get an adult.
- Ring 000.

# Switch on to safety

## Stage 2

Look at the picture and identify two dangerous electrical situations.



1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Remember!

Be careful around electricity poles and wires when you play!

### Activity 2

Discuss some of the possible dangerous situations around the house associated with electricity.

Complete the find - a - word to find the hidden message.

N O I T A L U S N I D A N G E R  
Y T I C I R T C E L E T E L L A  
E M E R G E N C Y S A F E T Y N  
C O N D U C T O R A D U L T

### Find these words

electricity  
conductor  
insulation  
danger  
emergency  
safety

### QUESTION:

If you see a dangerous electrical situation, what should you do?

Hidden message: \_\_\_\_\_

### Remember!

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# Switch on to safety

## Stage 2

### Activity 3

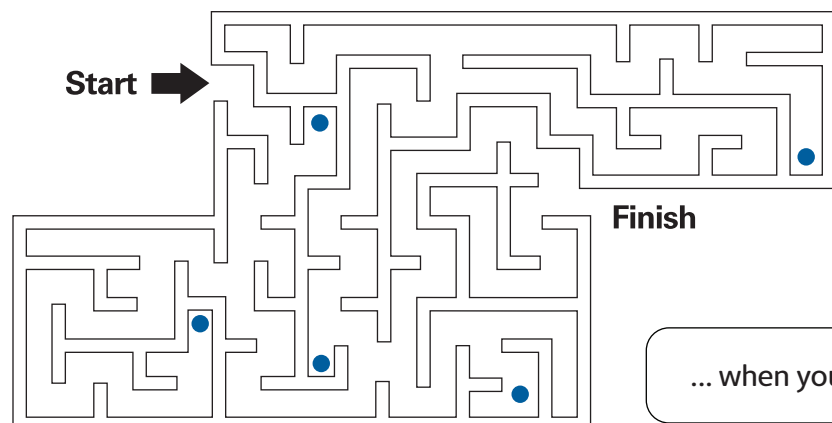
Create a poster or video about safety around electrical installations (e.g. sub stations etc.)



### Activity 4

Complete the maze.

Be careful around electricity poles and wires...



... when you play.

### Remember!

Be careful around electricity poles and wires when you play!

# Switch on to safety

## Stage 3

### Outcomes

PDHPE Outcomes	Indicators
<p>SLS3.13 Describes safe practices that are appropriate to a range of situations and environments</p> <p>DMS3.2 Makes informed decisions and accepts responsibility for consequences.</p>	<ul style="list-style-type: none"><li>• practices emergency response procedures, e.g. first aid, dial 000.</li><li>• devises strategies to respond to risky and dangerous situations, e.g. electrical equipment.</li><li>• recognises a medical emergency and knows how to give and gain assistance.</li></ul>

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## Stage 3



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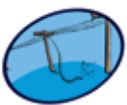


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#### Remember:

- Ensure your own safety.      • Get an adult.      • Ring 000.
- Turn the power off at the power point and remove the plug (if you are able to do so).

# Switch on to safety

## Stage 3

### Activity 1

Identify the **dangerous electrical situation** and explain what would happen.




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### Remember!

Be careful around electricity poles and wires when you play!

### Activity 2

Complete the code to find the safety message.

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z

### Remember!

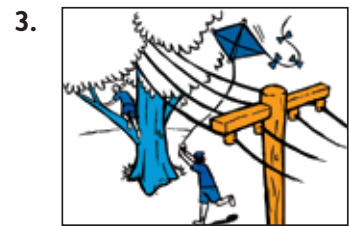
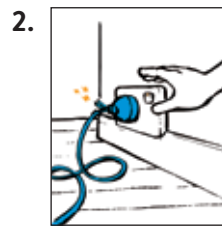
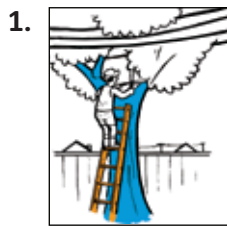
Electricity and water don't mix!

# Switch on to safety

## Stage 3

### Activity 3

What would you say to help these people from being electrocuted?



1. Man up tree \_\_\_\_\_

2. Broken cord \_\_\_\_\_

3. Flying kite \_\_\_\_\_

### Remember!

If you see a dangerous situation, tell an adult!

### Activity 4

Students work in groups to create a radio advertisement about electrical safety. The class or group may like to present it at assembly or for another class. Discuss the criteria that it should meet.



### Remember!

Be Safe!

