

Lesson 3

Teacher Notes – Safety In Your Neighbourhood

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> RS 3.5 • Reads independently an extensive range of texts with increasing content demands and responds to themes and issues.

Lesson Objective: Students will be made aware of dangerous places to play and be able to make informed decisions and choices about where to play safely in their neighbourhood.

- Resources:**
- Picture 3 – Kite hitting power lines.
 - Overhead/Worksheet – Rules for safety in your neighbourhood comprehension.
 - Worksheet – Lesson 3 Safety in your neighbourhood.
 - Map of local community.

Lesson Plan Outline

1. Discuss Picture 3 – Kite hitting power lines. Ask: What is in the picture? Discuss why there is a problem. Explain that you can get electrocuted if your kite hits electricity wires because the string can be a conductor and the electricity can run down the string to you and form a circuit through you to the earth.
2. Ask the students what other electrical situations we need to be aware of in our neighbourhood.
3. Put up the overhead or hand out the worksheet – Safety in your neighbourhood – Comprehension. Ask for volunteers to read each paragraph. Alternatively, allow children to read it silently. Ask students to share any experiences they may have had in relation to the examples provided.
4. Hand out worksheet. Ask students to complete the worksheet and then discuss answers with students.

Answers to worksheet:

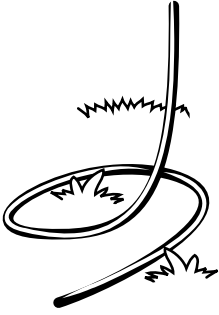
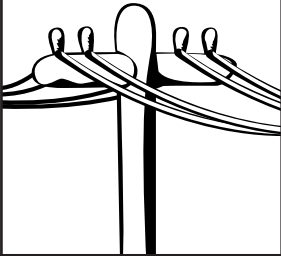








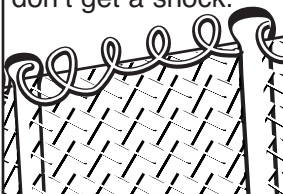




2. a. False b. True c. False d. False e. True
 3. Lightning hits the tallest objects. If you shelter under a tree you could be struck by lightning or by the tree falling on you.
 4. It can be dangerous if power lines are running through the tree. If you touch power lines you can be electrocuted.
 5. Water conducts electricity so if you are wet, you could be electrocuted.
 6. If the kite becomes wet, it becomes a conductor and when it hits the power line or is struck by lightning, the person holding the kite would be electrocuted.
 7. They contain dangerous equipment. If you climb the fence and enter a substation, you could be electrocuted.
 8. The metal mast of a boat could come into contact with overhead power lines and form a circuit. You could be electrocuted if you are touching the car or boat.
5. Look at a map of your local community and highlight a safe place to fly a kite. Design and make a kite. (Draw an illustration of Zappa on the kite.)
 6. Discuss the safety message at the bottom of the worksheet: “Remember be careful around electricity poles and wires when you play.”

Lesson 3 – Safety In Your Neighbourhood

Overhead

Name : _____ Class : _____ Date : _____

Comprehension – Read through the following information. Then answer the questions provided.

<p>Materials</p> <p>Never use wire, tinsel or any metal in your kite or string – they conduct electricity.</p> 	<p>Power lines</p> <p>Never fly a kite near power lines! Electricity could go right down the string to you. Choose a wide open place.</p> 	<p>Climbing a tree</p> <p>Before you climb a tree check there are no power lines. Never climb a tree with electricity wires in it or near it.</p> 	<p>Big buildings</p> <p>Electrical equipment that serves units, homes and shops etc. may have wires that could shock you. Don't fool with meters or other electrical equipment. Play somewhere else.</p> 	<p>Around trains</p> <p>Some railway tracks have overhead wires to power electric trains. Touching or coming close to these wires could kill you or badly injure you. Stay away, railway tracks are dangerous anyway.</p> 
<p>Hung up</p> <p>If your kite gets caught in a power line leave it there. Ask your parents to call the electricity company. They will send someone to get it down.</p> 	<p>Bad weather</p> <p>Do not fly kites on rainy days. Wet string is a good conductor of electricity from power lines and from lightning.</p> 	<p>Signs and high voltage</p> <p>Read signs and do what they say. High Voltage and Danger mean touching or coming close to the equipment inside could kill you.</p> 	<p>Around boats</p> <p>Watch out for power lines around boats. Do not swing poles and fishing lines in the air. Never touch switches when you are wet. Do not rig or carry sail boats near power lines.</p> 	<p>Gas</p> <p>Be careful around gas. If you smell gas tell someone.</p> 
<p>In open fields</p> <p>Wire fences around fields and paddocks can be electrified to keep the animals in. So stay away so you don't get a shock.</p> 	<p>Lightning</p> <p>Lightning is electricity in the air. It can hit tall things so do not shelter under a tree during a lightning storm.</p> 	<p>Power points</p> <p>Do not put anything except the right plug in a power point.</p> 	<p>Water</p> <p>Never touch an electrical appliance or switch if you are wet. Electricity flows easily through water and you if you are in water.</p> 	<p>Trees and poles</p> <p>Tall objects and wet wood attract lightning. Stay inside.</p> 

Lesson 3 – Safety In Your Neighbourhood

Name : _____ Class : _____ Date : _____

1. Give a brief explanation outlining something you have just learnt. Your answer should be related to the information in the table.

2. Circle True or False:

- | | |
|---|--------------|
| a. Climb a tree and then check for power lines | True / False |
| b. Lightning can jump | True / False |
| c. It is safe to play ball games near HIGH VOLTAGE signs | True / False |
| d. When building kites you should use materials which conduct electricity | True / False |
| e. Some wire fences can be electrified | True / False |

3. Explain the dangers associated with standing near a tree in a thunder storm.

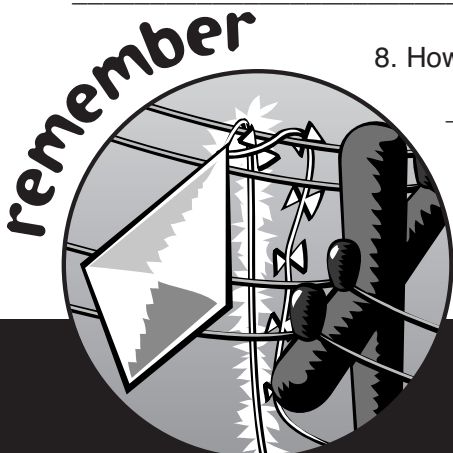
4. Climbing a tree is great fun. How can it be a dangerous activity?

5. What problems may arise from being wet and being around electrical equipment?

6. If a string and kite contain no conductors why then is it dangerous to fly a kite during bad weather?

7. Why do some places have wire fences and signs which say High Voltage?

8. How can you be harmed by electricity when towing a boat?



...be careful around electricity poles and wires when you play!

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