

Lesson 4

Teacher Notes – Safety Around The Home

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

Personal Development, Health and Physical Education Syllabus

Stage 3 Outcome SLS 3.13

- Describes safe practices that are appropriate to a range of situations and environments.

Science & Technology Syllabus

Stage 3 Outcome PP S3.4

- Identifies and applies processes involved in manipulating, using and changing the form of energy.

Mathematics Syllabus

Stage 3 Objective

- Investigate and describe informal grids.
- Use and describe simple coordinates to specify position.

Lesson Objective: Students will understand the need for rules in the home regarding safe behaviour around electrical equipment.

Background Information

It is important that the students see the comparison between road rules, school rules, sport rules and electrical safety, which are all created to keep people safe.

Resources:

- Picture 4 – Child pointing to a frayed power cord and showing an adult
- Worksheet – Lesson 4 Safety around the home (2 pages)

Lesson Plan Outline

1. Discuss Picture 4 – Child pointing to a frayed power cord and showing an adult. Ask: What is happening in the picture? Discuss why there is a problem. Explain that you can be electrocuted if there is an exposed power cord because electricity can escape through the uninsulated area into you. Explain the importance of letting adults know when you find electrical problems.
2. Ask the students – Why do we have rules in everyday life?
3. Discuss the rules that need to be followed when at school, driving a car and playing sport. Bring the focus of the discussion to electricity safety rules.
4. Split students into groups. Allocate one of the following headings to each group:
 - Safety around electricity poles and wires
 - Safety around electricity and water
 - Safety around electricity and metal
 - Safety around electricity substations
 - Electrical emergencies

Ask students to list possible dangers and create a rule to avoid these problems happening. Write each group's rule on the board.

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5. Hand out the two worksheets. Ask students to write the rules in the space provided and then complete the rest of the worksheet.

Answers to second worksheet:

The Grid positions are:

- B2 Light bulb broken
- E2 Fork being inserted into toaster
- D3 Power cord is frayed on toaster
- D3/E3 Too many cords in the one power point
- F5 Lawn mower is going to run over power cord
- F8 CD Player is too close to the pool
- F7 Girl is about to touch the CD player while she is in the pool and still wet
- B8 Power lines are running through the tree
- C7/D7 Man is about to climb a ladder up a tree which has a power line through it
– he also holds metal cutters

6. Discuss the safety message at the bottom of the worksheet: “Remember if you see a dangerous situation tell an adult.”

Additional activity

Split students into groups. Ask them to choose an unsafe situation to role-play. Allow students time to practice before presenting to the class. Remind the students the role-play should follow the safety rules they have devised on their worksheets. Bring the class together to watch each role-play.

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Name : _____ Class : _____ Date : _____

Electricity is used outside in: lights, door bells, extension cords, swimming pool pumps, barbecues, power tools and many other devices.

Electricity is used inside in: toasters, televisions, fridges, heaters, radio, lights, computers, stoves and many other devices.

It is very important to be careful around electricity. Can you think of some safety rules you could have for around your house or school?

My Safety Rules

1. _____

2. _____

3. _____

4. _____

5. _____



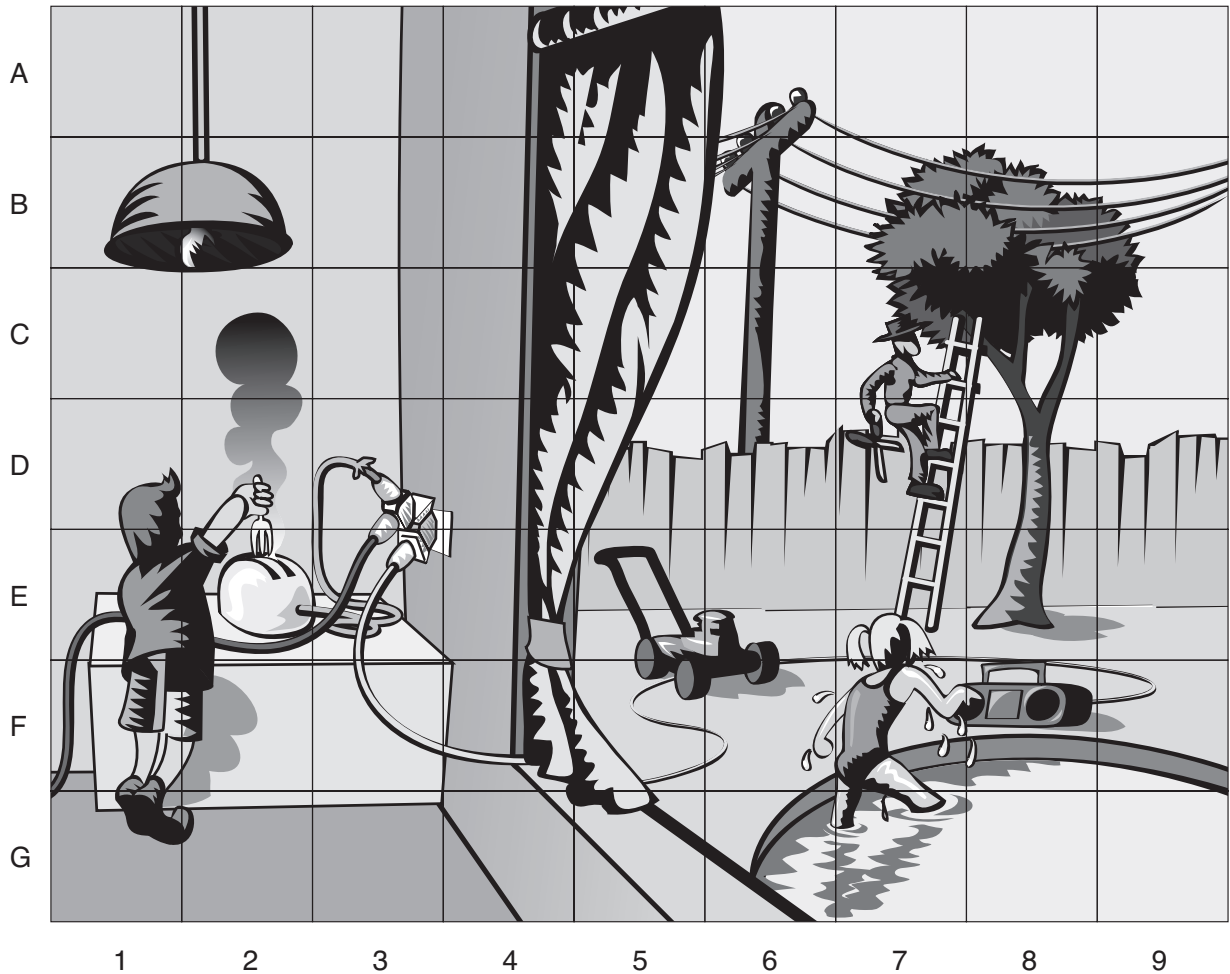
...if you see a dangerous situation tell an adult!

Students will understand the need for rules in the home regarding safe behaviour around electrical equipment.

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Name : _____ Class : _____ Date : _____

Look at the picture below and see if you can identify unsafe situations.



List the grid position and unsafe situation.

Grid ref	Unsafe situations	Grid ref	Unsafe situations

Students will understand the need for rules in the home regarding safe behaviour around electrical equipment.