

Electricity & Safety Unit

Teachers notes - Lesson 2 - Slide 25-34

Electricity safety quiz answers

1. Answer is B. Emergency phone number is 000.

2. Answer is B. Tell an adult immediately, so they can turn off the main power switch. Or if it is safe for you to do so, turn off the power at the power point.

3. Answer is C. Dry powder extinguisher. It is important to emphasise that water and waterbased extinguishers should not be used because water is a conductor of electricity.

4. Answer is C. When birds are only touching one wire and nothing else, the electricity cannot make a circuit.

5. Answer is B. Students should stay away from the substation and tell an adult. 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. The adult can ring Ergon Energy or Energex to see if they have an expert who can safely retrieve the ball.

6. Answer is A. Turn off the toaster, unplug it and once it has cooled down, turn it upside down. Explain to students that metal is a conductor of electricity.

7. Answer is C. Both of the above. Warn others and tell an adult and stay at least 10 metres away from the fallen powerline and anything it may be touching. You may like to practically demonstrate the distance of 10 metres. i.e. ask a student to stand in the playground and represent a fallen powerline. Ask the other students to stand at least 10 metres away from the student. The teacher can then measure 10 metres to see if the students have an accurate understanding of the distance.

8. Answer is A. Tell your sister it is dangerous and that she should not use her hair dryer near water. If she wants to use the hair dryer in the bathroom, she should make sure the bath is empty. If not, she should move to another room where there is no water present.

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Electricity safety quiz answers (continued)

9. Answer is A. Tell your friend it isn't safe and that he shouldn't go near it.

10. Live electricity can travel down the string and seriously hurt you. 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.

11. Overloaded power points with piggy backed plugs can cause an electrical fire. Never stack power points. You should use a power board or have an extra power point installed by a licensed electrical contractor.

12. If you hit an underground powerline, you could be electrocuted and interrupt power to your suburb. Remember – before you or your family do any major digging in the yard, your parents should ring Dial Before You Dig on 1100 to make sure there are no underground cables near your property.

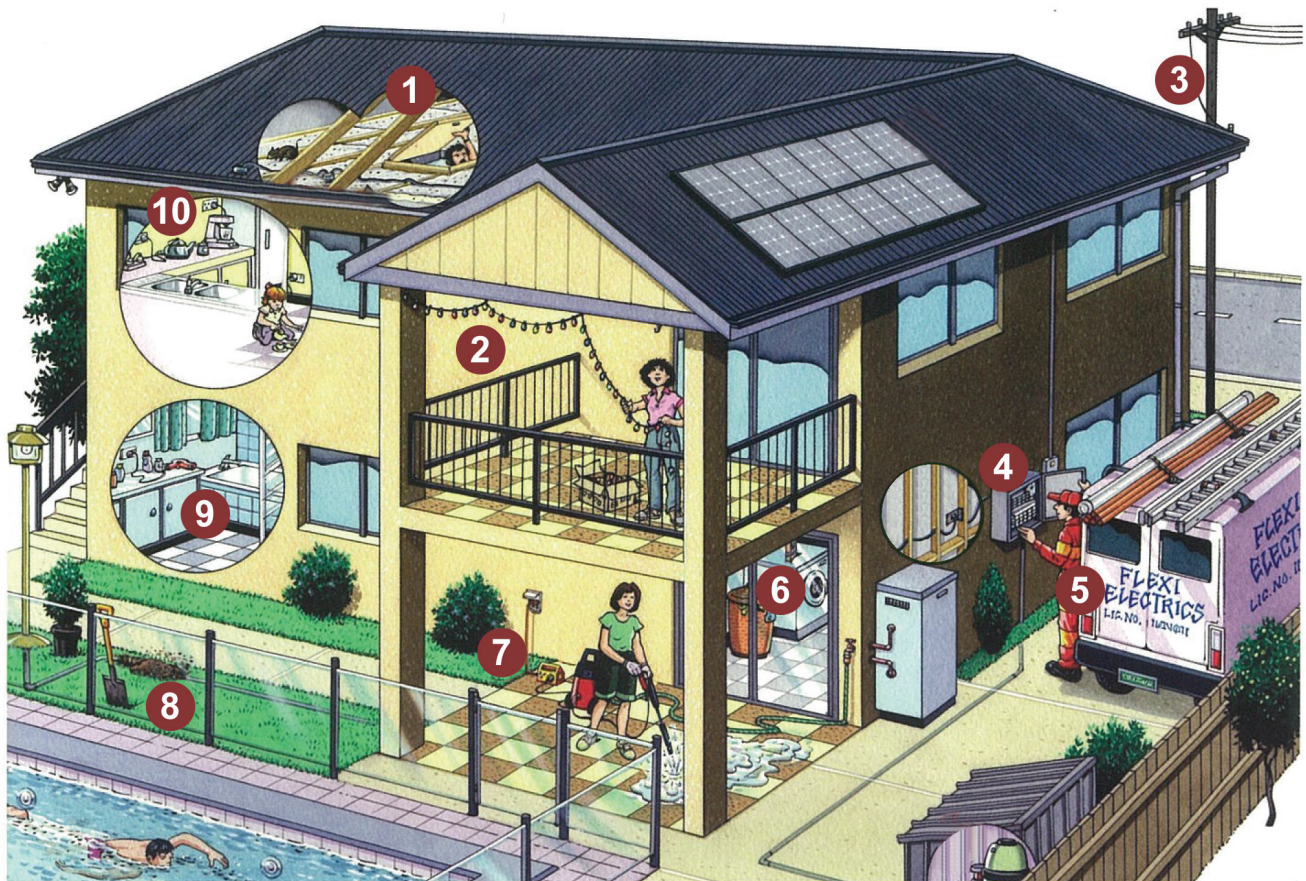
13. They should be disconnected at the power point and fixed or replaced by a licensed electrical contractor.

14. Always be on the lookout for dangers in and around your home. This could be anything from a faulty electrical lead to an overloaded power point with piggy backed plugs – one with too many plugs in it. These situations could be life threatening. Tell an adult as a licensed electrical contractor should be called in to fix them.

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Electricity safety quiz answers (continued)



1. Turn off the power before going into the ceiling space.
2. Check that Christmas and party lighting is suitable for outdoor use.
3. Look up and live. Be aware of overhead power lines, especially when using ladders.
4. At the switchboard:
 - know how to turn the power off, including equipment such as hot water systems which may be on a separate tariff, and will have a separate switch
 - safety switches save lives; test yours every three months.
5. Always use a licensed electrician to do your electrical work.
6. Clean the clothes dryer's lint filters every time you use it.
7. A portable safety switch can protect you when a permanent safety switch is not available.
8. Take care when digging near underground wiring.
9. Take extra care when using electrical appliances in wet areas such as kitchen, bathroom and laundry.
10. Only use electrical appliances for their intended purpose. Follow the manufacturer's safety instructions.