Hazard Hamlet Activity Book

An Electrical Safety Activity Book
Power probe

1. Why is a transformer box like an eight-toed super varmint with hyper bad breath?

- Where is the electricity?
- Colour what uses electricity in orange.
- Colour what doesn't use electricity in other colours.
 Colour the shocks!

Then write down what Harry is doing wrong.

1. ____________________________________________

2. ____________________________________________

3. ____________________________________________

4. ____________________________________________

5. ____________________________________________
Harry’s been shocked, zapped and frazzled.
Connect the dots and put him together again.

2. What’s the difference between you and a light bulb?
Watt words where?

There are bunches of words hidden in the which-way-watt-words square. But only some have to do with electricity. Which are the watt words? Which aren't?

Watt words | Non-watt words
--- | ---
electricity | lock
tower | loss
volts | fuels
amps | art
hydro one | clue
fuse | cow
transmission | tow

A tougher rougher square

The names of five things which use electricity are hiding in this square. Find them – and then write a safety rule for each.

1. ___________________________________
2. ___________________________________
3. ___________________________________
4. ___________________________________
5. ___________________________________
Fun & Games

Rules & Regulations

◇ Roll the dice to decide who goes first.
◇ Highest number starts.
◇ Lowest number goes last.
◇ If two people roll the same number, they roll again.
◇ Throw dice and advance the number of squares the dice say.
◇ Do what the instructions on the square say.
◇ Any number of players can play.
◇ For a longer game you could use only one die.
Fly kite near power lines. Go back three.

Ignoring power lines while towing boat.

Failed to notice overhead power lines while cleaning pool.

Sticking object in transformer box. Go back one.

Don’t poke things in appliances. Go back one.

Don’t poke things in appliances. Go back one.

Call power company to rescue cat.

Failed to notice overhead power lines while cleaning pool.

Ignoring power lines while towing boat.

Go back two.

Go ahead one.

Go back three.
Safety squad

- Your assignment: Uncover Harry's mistakes.
- Fill in the electrical danger next to the number in your report book.
- You should spot eight dangers. Good luck!

1. 
2. 
3. 
4.

What happens when you cross a power line with a television antenna?
Safety Squad
Safety Danger Report

Current time:
1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 

Completion time:
Harry wants to listen to his favourite radio station. You have to build the power line.

Number the parts of the electrical system in the order they fit into the system. We’ve started you off with number 1 for the substation. Harry’s radio is number 7.

4. Why do signs around a substation say “danger”? 
How many times a day do you use electricity?
Is there a potential hazard each time you use electricity?
Keep a diary tomorrow - right from when you wake up.
(Is that an electric alarm clock we hear? Is it plugged in safely?)
We've filled in some of the diary for you.

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00</td>
<td>Toaster! Cord frayed.</td>
<td>4</td>
</tr>
<tr>
<td>7:30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:00</td>
<td>Brief meeting with Hollywood talent scouts.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Discuss your role in the series. This has nothing to do with electricity,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>but it is kind of interesting - right?</td>
<td></td>
</tr>
<tr>
<td>8:30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:00</td>
<td>Electric school bell. It causes stress.</td>
<td></td>
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<tr>
<td>9:30</td>
<td></td>
<td></td>
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<tr>
<td>10:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td></td>
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<tr>
<td>11:00</td>
<td></td>
<td></td>
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<tr>
<td>11:30</td>
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<td></td>
</tr>
<tr>
<td>12:00</td>
<td>Feeding frenzy!</td>
<td></td>
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<tr>
<td>12:30</td>
<td></td>
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<tr>
<td>1:00</td>
<td></td>
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<tr>
<td>1:30</td>
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<tr>
<td>2:00</td>
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<td>2:30</td>
<td></td>
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<tr>
<td>3:00</td>
<td></td>
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<tr>
<td>3:30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:00</td>
<td>Home to listen to radio in whirlpool tub. Definite danger!</td>
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<tr>
<td>5:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6:00</td>
<td>Hidden threats in kitchen?</td>
<td></td>
</tr>
<tr>
<td>7:00</td>
<td>Hollywood calls. Will you change your hairstyle?</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Do not use hair dryer in shower!</td>
<td></td>
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<tr>
<td>8:00</td>
<td>Fabulous neighbour asks if you will get cat down from power pole.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>You call utility instead, exhibiting intelligence, worldliness, etc.</td>
<td></td>
</tr>
<tr>
<td>9:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00</td>
<td></td>
<td></td>
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</tbody>
</table>
What is Harry doing wrong? (page 3)

1. Harry raises the handle of the pool vacuum without looking up to see where the power lines are. Safety reminder: always look up and keep clear of wires.
2. Harry touches the plugged-in radio with wet hands. Safety reminder: never mix electricity and water.
3. Harry repairs the toaster while the toaster is plugged-in. Safety reminder: always pull the plug first.
4. Harry gets off the bus instead of staying in and waiting for the power company to come and disconnect the electricity. Safety reminder: stay put until the power company says it’s safe.
5. Harry cuts off branches which grow near a power line. Safety reminder: phone the utility when tree branches are close to wires.

Safety Squad Danger Report. (pages 8 and 9)

1. He did not call the power company before digging.
2. He operated the truck boom too close to power lines.
3. He flew his kite near power lines.
4. He cut the electrical cord with the mower.
5. He climbed a utility pole.
6. He did not pay attention to the power lines when he took the boat out of the water.
7. He ignored the “Danger” sign and went over the fence of the transformer station.
8. He poked a branch into the padmount transformer.

Answer to riddles.

1. You don’t want to touch either of them. (page 2)
2. You’re not so bright when electricity is running through you. (page 4)
3. You get a shocking reception. (page 8)
4. Just for the shock effect. (page 10)

Answer to building the power line.