

# Circuits and Conductors

Science

Year 4

Lesson 2 of 5

<b>Learning Objective</b>		<b>Resources</b>
To understand how to keep safe around electrical appliances.		Slides Worksheet 2A/2B/2C Poster Template sheet (FSD? activity only)
<b>Teaching Input</b>		
<ul style="list-style-type: none"> <li>• Recap with children which electrical appliances they might find in the home. Think, pair, then share.</li> <li>• Ask children if they have ever been told never to touch a plug socket. Do they know why this is dangerous?</li> <li>• Discuss mains electricity around the home and why we are told not to play with plug sockets.</li> <li>• Explain to children that there are measures in place to keep us safe from electricity, e.g. protective layers that electricity cannot pass through.</li> <li>• Ask children whether they remember what else we can use to power an object. Explain to children that batteries store energy and are different to mains electricity you would find when plugging in an appliance. Discuss the differences between batteries and mains electricity and the safety concerns with both.</li> <li>• Show children a range of safety signs. Have children ever seen these before? Where might they find the posters?</li> <li>• Discuss how we can keep safe around electricity. Electric shocks can cause serious injury or can even be fatal.</li> </ul>		
<b>Main Activity</b>		
<p><u>Lower ability:</u></p> <p>Provide children with Worksheet 2A. Children to look carefully at the picture and then circle the dangers they can spot.</p>	<p><u>Middle ability:</u></p> <p>Provide children with Worksheet 2B. Children to look at the picture carefully and spot the electrical hazards in the home. Children to then describe each danger.</p>	<p><u>Higher ability:</u></p> <p>Provide children with Worksheet 2C. Children to look at the picture carefully and spot the electrical hazards in the home. Children to then describe each danger and give solutions on how they could make the situation safe.</p>
<b>Fancy something different...?</b>		
<ul style="list-style-type: none"> <li>• Children to create a safety poster about electricity.</li> <li>• Children can either use one of the Electrical Safety Poster Templates or plain paper.</li> <li>• Challenge children to show some of the dangers when being around electricity and how someone could keep safe.</li> </ul>		
<b>Plenary</b>	<b>Assessment Questions</b>	
<p>Why do you think that there are normal mains sockets in bathrooms? Invite children to share their ideas.</p>	<ul style="list-style-type: none"> <li>• Can children explain some of the dangers of electricity?</li> <li>• Are children able to explain the difference between battery and mains electricity?</li> <li>• Are children able to say how they can stay safe around electricity?</li> </ul>	