

## Special school A - Lesson 1: Looking at key safety risks in the kitchen in Home Economics

### Sample teaching and learning activities

Junior Certificate subjects	Topics	PLUs	Elements	Learning outcomes
Home Economics	Home Management & Design  Study of Safety in the Home	Personal Care.	Knowing how to stay safe.	Identify key safety risks in the workplace/ home/ community.
Keywords	Safe , dangerous, electric , electric shock, switch, socket ,plug, lead /flex , burn, scald, sharp, electrocute			
Pre-learning	<p>Students have an awareness of appliances that use electricity</p> <p>Students know the difference between dangerous and safe - Slides 1-9 on PowerPoint 'Dangerous and not dangerous' (1) and also why some things are dangerous.</p>			
Resources	<p>(1) <a href="#">Power point 'Dangerous and not dangerous'</a></p> <p>(2) Be Safe- National Safety Council website is used for interactive whiteboard activities: <a href="http://www.ngfl-cymru.org.uk/vtc/using_electricity/eng/Introduction/default.htm">www.ngfl-cymru.org.uk/vtc/using_electricity/eng/Introduction/default.htm</a></p> <p>(3) Kids-interactive house <a href="http://www.switchedonkids.org.uk/">http://www.switchedonkids.org.uk/</a></p> <p>(3a) <a href="#">Switched on Kids colouring sheet - Spot 8 electrical hazards</a></p> <p>(3b) <a href="#">Solution sheet: Switched on Kids colouring sheet – Spot 8 Electrical Hazards</a></p> <p>(3c) <a href="#">Top electrical safety tips poster</a></p> <p>(4) <a href="#">Self assessment activity sheet</a></p>			

<b>Brief overview of the lesson</b>	<p>In this lesson, students will learn to identify electrical hazards and general kitchen hazards through a number of activities and demonstrations.</p> <p>Students will explore the reasons why electrical appliances can be dangerous and record their findings.</p>
<b>Introduction</b>	<p>Students are show slides 10-19 on a power point (1) which shows pictures of various settings, (home, school, and workplace) and are asked to identify the various electric appliances in the pictures.</p> <p>Students are quizzed on their knowledge of how these appliances work i.e. powered by electricity and will take part in the Interactive whiteboard activity (2).</p> <p>Students take part in a group discussion on how electricity can also be dangerous and how it might feel to get an electric shock. Students then move on to discussing how electric appliances themselves can be dangerous if they are not used correctly or if they are used carelessly.</p>
<b>Main activity</b>	<p>Using the power point, students examine a picture (slide 19) of a kitchen with a number of unsafe situations. They identify the aspects of the kitchen which they believe to be unsafe.</p> <p>Using the Switched on kids Interactive house (2) students are asked to name the electric appliances found in the kitchen and discuss how they are used. Students are then encourage to name possible dangers associated with using these appliances, e.g.</p> <ul style="list-style-type: none"> <li>• <i>Could get shock if hands are damp/ wet when plugging in /out appliances</i></li> <li>• <i>Any appliances may be pulled off counter by child if lead is left dangling</i></li> <li>• <i>Could get scald from steam from kettle or boiling saucepan</i></li> <li>• <i>Could get burn when using hob (from saucepan/ frying pan or from hob itself)</i></li> <li>• <i>Burn from hot oven</i></li> <li>• <i>Shock from toaster if trying to take out bread which might have got stuck</i></li> <li>• <i>Could injure finger /hand if hand is put too close appliances while it is running</i></li> <li>• <i>Fat from grill pan could go on fire</i></li> </ul>

	<ul style="list-style-type: none"> <li>• <i>Could damage lead/flex on sandwich maker/ George foreman if flex is too near the appliance.</i></li> </ul> <p>The teacher picks one or two appliances e.g. Sandwich maker/ kettle and gives a practical demonstration of using this appliance highlighting the various safety risks that have just been discussed.</p>																												
<b>Closure</b>	<p>Using the whiteboard students as a group on the interactive 'Be safe' website (3)</p> <p>Individually students complete 'Switched on' Kids colouring sheet- spot 8 electrical hazards (3a).</p> <p>In groups students make out a list of rules on how to use electricity safely in the kitchen and display these rules in a prominent place.</p>																												
<b>Follow up Lessons/Activities</b>	<p>Parents can follow up on the safe use of electrical appliances at home</p> <p>Discussion on what action to take in the event of an accident using an electric appliance.</p> <p>Explore safety equipment: Smoke Alarms, Fire extinguishers, Fire blankets.</p> <p>Recognise careless actions and their possible consequences.</p> <p>First aid lessons.</p>																												
<b>Gathering evidence of learning</b>	<ul style="list-style-type: none"> <li>• Self assessment activity sheet (4).</li> <li>• Photographic evidence of students applying the theory in practical situations.</li> <li>• Video of student demonstrating students carrying out tasks which require the safe use of electrical appliances.</li> </ul>																												
<b>Criteria for success 10/12</b>	<table border="1"> <thead> <tr> <th></th> <th><b><i>The student should be able to</i></b></th> <th><b>Yes</b></th> <th><b>No</b></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Use oven gloves when handling hot dishes</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Open a ring pull tine safely</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Safely dispose of an empty tin</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Ensure that hands are dry when using plugs</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Ensure that saucepan handles are turned inwards</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>Stay with saucepan while food is cooking</td> <td></td> <td></td> </tr> </tbody> </table>		<b><i>The student should be able to</i></b>	<b>Yes</b>	<b>No</b>	1	Use oven gloves when handling hot dishes			2	Open a ring pull tine safely			3	Safely dispose of an empty tin			4	Ensure that hands are dry when using plugs			5	Ensure that saucepan handles are turned inwards			6	Stay with saucepan while food is cooking		
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	7	Remove toast safely from the toaster		
	8	Turn the hob off after use		
	9	Exercise care when removing hot items from the oven		
	10	Exercise caution when using the kettle/hot water		
	11	Ensure that flexes are not trailing over the edge of the counter		
	12	Wipe up spills immediately		
<b>Reflections</b> <i>Teacher reflection on the activity what you would change or what worked well.</i>	Teaching this lesson highlighted a gap in the vocabulary of the students. They were not familiar with words such as electrocute, electric shock. There was also confusion over the words “lead” & “flex”. There is a tendency sometimes to assume that students know certain basic safety facts, however teaching this lesson it became evident that safety issues need to be re-enforced in every lesson. It is very important to check that the students can apply the theory to the practical situation.			
<b>Students reflection on the activity</b>	“Enjoyed it.” John Tom “ Its good”			