

Safety Awareness and Fire Education - Gloucestershire  
Activity Notes- Keeping safe at home

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| <b>Class</b>   | Years 5 and 6  |
| <b>Topic:</b>  | Keeping safe at home   |
| <b>Activity:</b>   | 2  |
| <b>Over view of activity</b>                               | Fire experiment  |
| <b>Notes</b>   |  |
| Re-cap the fire triangle                                   | <p>What do humans bodies need to stay alive?</p> <p style="padding-left: 40px;">Food<br/>Oxygen<br/>A healthy body</p> <p>Show one of the candles<br/>What does a candle need to burn?</p> <p style="padding-left: 40px;">Food (the wax)<br/>Oxygen<br/>Heat</p> <p>If we don't have food what will happen to us?<br/>If you take away an element from the candle what will happen?</p>  |
| Lighting the candle – risk assessment and safety measures. | <p>Light the candle, discussing safety controls.<br/>The candle is in a suitable container (the casing of a T-light is not a suitable container) or on a fire resistant surface.</p> <p style="padding-left: 40px;">There is nothing near-by which could be blown or knocked on to the lighted flame.<br/>Long hair is tied back.<br/>Clothing will not drape over the flame.<br/>There is means to extinguish fire near-by.</p> |
| How can this candle be extinguished?                       | <p>Blow out the candle, stopping heat.<br/>Put water on the candle, stopping heat.<br/>Use a candle snuffer, stopping oxygen.<br/>Let the candle burn until there is no more wax, stopping fuel.<br/>Use one of these methods to extinguish the candle.</p>  |
| Design an experiment                                       | <p>Ask the students to design an experiment to predict what will happen if different size jars are placed over candles of the same size.</p> <ol style="list-style-type: none"> <li>1) What element of the fire triangle are you removing? (Oxygen.)</li> <li>2) What equipment will you need?</li> <li>3) How can you make it a fair test?</li> <li>4) What do you predict will happen?</li> </ol>                              |
| Conducting the experiment                                  | <p>Discuss the different ideas and decide upon one method.<br/>Demonstrate the experiment to the whole class.</p>  |
| Conclusion   | <p>Ask the students to display the results of the time taken for each candle to be extinguished and write up their conclusions.</p>  |