



# Water Fountain Demonstration



<b>EQUIPMENT</b>	<p>A small plastic 500 ml bottle with a screw top lid, Awl</p> <p>A large jug or deep bowl or bucket of hot water, a thermos flask is useful here.</p> <p>A strong plastic drinking straw, Blu-tack or Plasticine</p> <p>Drawing pin, Food colouring, Dropper</p> <p>Sink, newspaper, plastic sheet</p>
<b>PREPARATION</b>	<p>Make a hole in the lid of the bottle, just the right size to fit the drinking straw. This is a wet activity so do it in a waterproof area e.g. at a sink, over newspapers or on a plastic sheet.</p>
<b>BACKGROUND INFORMATION</b>	<p>Air expands as it is heated. When the bottle is put into hot water the air inside the bottle expands and pushes the coloured water into the straw and out the top like a fountain.</p>
<b>SKILLS</b>	<p>Observing</p>
<b>ACTIVITY</b>	<p>Put some water in the bottle until it is about half full.</p> <p>Add a few drops of food colouring.</p> <p>Screw the lid very tight on the bottle and push the straw through the hole in the lid until it is below the surface of the water.</p> <p>Press some Blu-tack or Plasticine round the straw to seal the hole in the lid.</p> <p>Put a small piece of Blu-tack or Plasticine in the end of the straw and plug it with the drawing pin.</p> <p>Put the bottle carefully into the jug/deep bowl of hot water and remove the plug (pin and Blu-tack).</p>
<b>SAFETY</b>	<p><b>ADULT DEMONSTRATION ONLY</b></p> <p>Care with hot water.</p> <p>Be careful that no faces are directly above the 'fountain'. This is a wet activity – to be done at a sink, over newspaper or on a plastic sheet.</p>

