

Year 6

Small Science Learning Tasks

<p>Cabbage water indicator.</p> <p>Aim: To determine which substances are an acid and which ones are an alkali.</p> <p>The cabbage water acts as an indicator, changing colour if it is in contact with an acid or an alkali.</p> <p>Method:</p> <p>Chop and boil a quarter of a red cabbage.</p> <p>Strain off the cabbage water and keep it. Note what colour the cabbage water is!</p> <p>Place the cabbage water in several clear glasses or in several bowls.</p> <p>Place some washing soap powder in one of the glasses or bowls and note down any colour changes.</p> <p>Try the same thing with other household substances e.g. vinegar (acid), lemon juice (acid), orange juice (acid), soap (alkali), shampoo (alkali).</p> <p>The cabbage water should turn pink in acidic solutions, and blue or green in alkaline solutions.</p>	<p>Build a tabletop hovercraft.</p> <p>You will need:</p> <ul style="list-style-type: none"> An old CD or DVD disc. A 9" balloon. A pop-top cap from a liquid soap bottle or a water bottle. A glue gun. <p>If you are using the cap from a water bottle, cover the center hole of the CD with a piece of tape and poke about 6 holes in the tape with a push-pin or small nail. This will slow down the flow of air and allow your hovercraft to hover longer. Use the hot glue gun to glue the cap to the center of the CD or DVD disc. Create a good seal to keep air from escaping. Blow up the balloon all the way and pinch the neck of it. (Don't tie it.) Make sure the pop-top is closed and fitted to the neck of the balloon over the pop-up portion of the cap. When you are ready to commence hovering, simply put the craft on a smooth surface and pop the top open.</p>	<p>Make a balloon rocket.</p> <p>You will need:</p> <ul style="list-style-type: none"> 1 balloon (round ones will work, but the longer "airship" balloons work best) 1 long piece of kite string (about 10-15 feet long) 1 plastic straw tape <p>What to do:</p> <p>Tie one end of the string to a chair, door knob, or other support.</p> <p>Put the other end of the string through the straw.</p> <p>Pull the string tight and tie it to another support in the room.</p> <p>Blow up the balloon (but don't tie it.) Pinch the end of the balloon and tape the balloon to the straw as shown above.</p> <p>You're ready for launch.</p> <p>Let go and watch the rocket fly!</p>	<p><u>Making a periscope!</u></p> <p>To make your own periscope you'll need:</p> <ul style="list-style-type: none"> Large cereal box or an A4 size or larger piece of cardboard 2 mirrors 2" x 2" (5cm x5 cm) Glue stick or glue Masking tape Scissors Paint for decoration (Optional) Periscope template
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