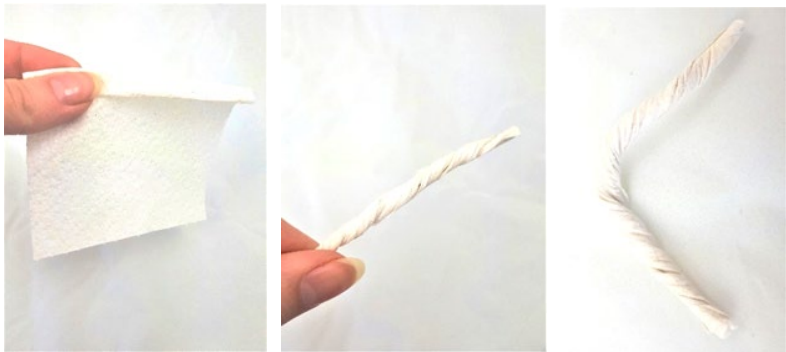

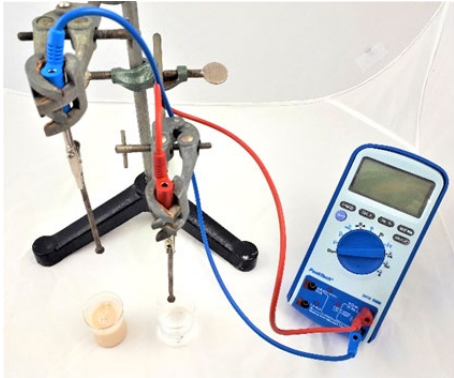


Simple biofuel cells: the superpower of baker's yeast

Activity 2: Illustrated instructions

A microbial fuel cell with baker's yeast

(two-pot arrangement)

	<p>Twist a piece of toilet paper.</p>
	<p>Suspend 1.5 g dry yeast in 25 ml distilled water in one beaker.</p> <p>Prepare 100 ml of a glucose or sucrose solution 10% (w/w) in the other beaker.</p>
	<p>Set up the cell arrangement.</p> <p>Fix the electrodes with the help of a stand and prepare the filled beakers.</p>

	<p>Add 2.5 g glucose or sucrose to the yeast suspension while stirring.</p>
	<p>Put the iron electrodes into the cell and connect the two beakers with the twisted toilet paper.</p>
	<p>Start measuring the voltage immediately. Measure the current after 10 minutes.</p>