

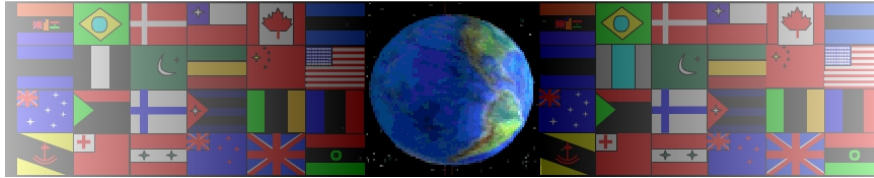
INDUSTRIAL SOLDERING - WAVE SOLDERING - QUESTIONS

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On behalf of The World Association of Technology Teachers

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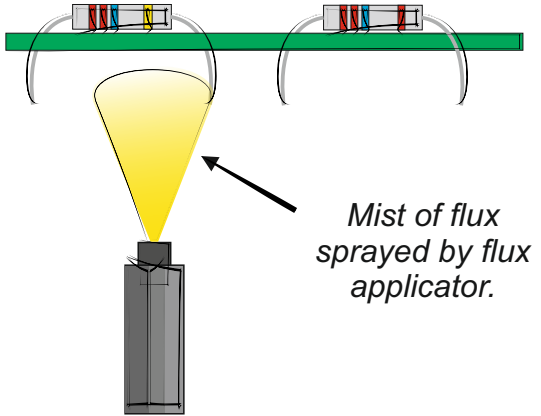
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Industrial wave soldering is a process, where by circuit boards and their components, are solder, on a mass production line. This is the way thousands of circuits are manufactured.

Using the table below, explain each of the stages in the wave soldering process, adding notes and diagrams / sketches. The first stage has been completed for you.

NOTES / EXPLANATION	DIAGRAM / SKETCH
<p data-bbox="231 481 651 517">APPLICATION OF FLUX</p> <p data-bbox="145 573 770 947"><i>The first stage is the application of flux. This is a substance that helps keep the circuit board clean, by preventing oxidisation, during the heating process. The flux is sprayed in the form of a fine mist, onto the underneath of the board, covering the tracks and exposed 'pins' of the components.</i></p>	 <p data-bbox="1187 757 1409 864">Mist of flux sprayed by flux applicator.</p> <p>The diagram shows a green circuit board with two components mounted on it. A grey flux applicator is positioned below the board, spraying a yellow mist upwards. An arrow points from the text label to the spray.</p>
<p data-bbox="140 1039 759 1075">HEATING OF THE CIRCUIT BOARD</p>	
<p data-bbox="181 1592 718 1628">THE WAVE SOLDERING TANK</p>	