

Question 24 (5 marks)

Design an experiment that tests the effect of opening a window on the blood oxygen saturation level of the people in a room.

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Independent variable	level of blood oxygen
Control	a person in a room with closed windows
Variables to be kept constant and justification for keeping each constant.	<p>Variable 1: movement of people - sit still</p> <p>Justification: if the people were running around the room they would have reduced oxygen so they should sit in order to maintain a correct and even reading</p>
	<p>Variable 2: length of time window is open.</p> <p>Justification: the window should be left open for 5 minutes and then closed to ensure there is a set level of air entering the room.</p>
Technology used to measure oxygen saturation in blood	pulse oximeter