

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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<p>Independent variable</p>	<p>..... Open of closed window (O_2).....</p>
<p>Control</p>	<p>..... a person in a room with no window.....</p>
<p>Variables to be kept constant and justification for keeping each constant.</p>	<p>Variable 1:..... position of each person.....</p> <p>Justification:..... the position in the room of each person affects the amount of O_2 from the open window are receiving, all must be in the same position to increase validity.....</p> <hr/> <p>Variable 2:..... how far the window is open.....</p> <p>Justification:..... the amount of O_2 entering the room via window will be affected by the size of the gap the window will make. the window must remain a certain amount open.....</p>
<p>Technology used to measure oxygen saturation in blood</p>	<p>..... blood samples recording O_2 levels in haemoglobin.....</p>