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Human Factors

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| **Across**  **6.** The process of exchanging gases between the body and the atmosphere  **7.** Psychological and/or physiological state characterized by a diminished capacity to perform and tiredness  **8.** Differences in pressure on either side of the ear drum causing distension and pain, even damage  **10.** The movement of blood from the lungs through the vessels of the body which distributes nutrients and oxygen to cells and removes waste products  **11.** Injuries causes by a rapid decrease in pressure that surrounds the body, mainly causes by diving  **13.** Accurate perception of the operational and environmental factors that affect the aircraft and its occupants during a specific period  **14.** Component of the inner ear which converts vibrations into nerve impulses sent to the brain | **Down**  **1.** A chemical reaction that happens in all cells to release energy from glucose sugars and oxygen  **2.** Expansion or contraction of gases in facial cavities causing pain  **3.** Inadequate oxygen supply to the cells and tissues of the body  **4.** Over breathing, or breathing at a rate in excess of that required to remove carbon dioxide  **5.** Colorless, odorless and tasteless gas produced by gasoline and fuels which binds to red blood cells instead of oxygen therefore reducing oxygen carrying capacity in the body  **9.** Dental cavities may hurt at increasing altitude due to more pressure within the affected tooth  **12.** Any type of change that causes physical, emotional or psychological strain and is the body's response to anything that requires attention or action (fight or flight response) |