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ACROSS

- 1 The primary drive to breath in normal healthy people is ____ .
- 3 A device that uses an LED and sensor to measure the diffusion of light in a capillary bed indicating oxygen saturation of hte hemoglobin.
- 4 Ccalculated by multiplying the ventilation rate with the tidal volume.
- 6 The amount of air moved through the lungs in one ventilation.
- 8 Pulmonary arteries carry ____ blood.
- 10 The total amount of air that you can forcibly blow out after full inspiration, measured in liters.
- 13 Comprised of several cartilaginous structures, including the thyroid cartilage, and the cricoid cartilage.
- 15 A passive process of ventilation that does not require energy under normal ventilations.
- 17 A group of neurons located in the brain stem that create the rhythmic cycle of inspiration and expiration.
- 20 The amount of air that you can forcibly blow out in one second, measured in liters.
- 21 The functional unit of the lung.
- 22 Red blood cells contain a protein, which helps to transport oxygen
- 23 An active process of ventilation that requires the expenditure of energy.

DOWN

- 2 The leaf-shaped structure that prevents food and liquid from entering the larynx.
- 3 A small, hand-held device used to manage asthma by monitoring airflow through the bronchi and thus the degree of restriction in the airways.
- 5 The speed of the air moving out of your lungs at the beginning of the expiration, measured in liters per second.
- 7 The two step process of inhalation and exhalation.
- 9 The number of ventilations per minute.
- 11 A complex process of moving oxygen and carbon dioxide into and out of the cell.
- 12 Pulmonary veins carry ____ blood.
- 14 Two on the left, three on the right.
- 16 The process of transporting nutrients, including oxygen to the tissues of the body using the cardiovascular system.
- 18 Made of "C" shaped cartilaginous rings held together by fibrous connective tissue.
- 19 Located between the mouth, the nose and the larynx .

Respiratory Anatomy and Physiology

Solution:

