

6.4 Gas Exchange

Ventilation

Distinguish between ventilation, gas exchange and cell respiration

Ventilation:

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Gas Exchange:

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Cell Respiration:

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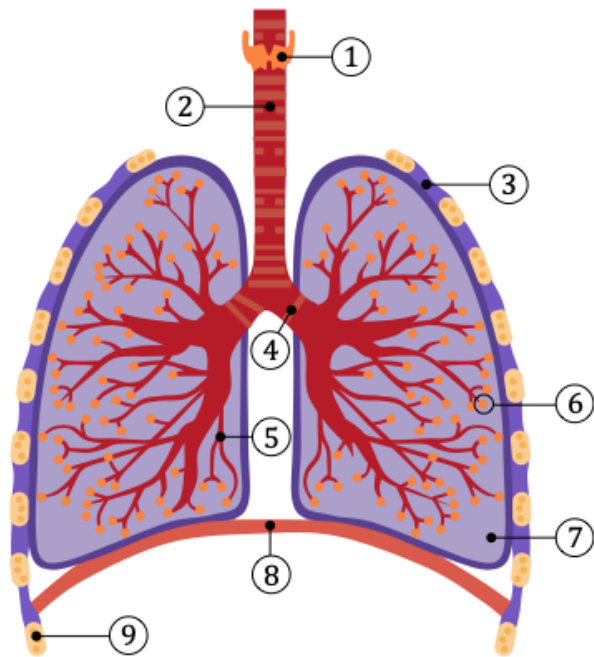
Explain why a ventilation system is needed to maintain a concentration gradient within the alveoli

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Label a diagram of the human lung



1.

2.

3.

4.

5.

6.

7.

8.

9.

State the purpose of the alveoli

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Compare type I and type II pneumocytes

Type I Pneumocyte	Type II Pneumocyte
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Outline the function of pulmonary surfactant

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Explain how Boyle's Law relates to the mechanism of breathing

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Explain, with the aid of the diagram, the actions of respiratory muscles in the mechanism of breathing

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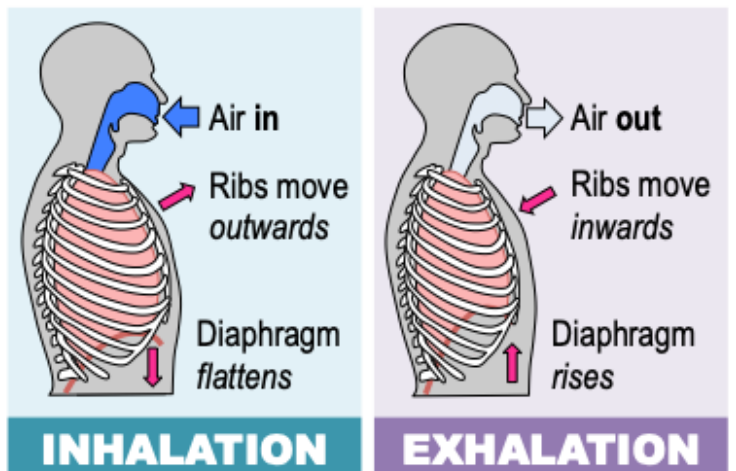
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Lung Activity

Explain how ventilation rates change with exercise

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Define spirometry

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Outline the causes and consequences of lung cancer

Causes:

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Consequences:

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Outline the causes and consequences of emphysema

Causes:

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Consequences:

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