

Gas exchange in humans

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Breathing system

larynx, trachea bronchi, bronchioles alveoli
ribs, diaphragm

Intercostal muscles and cartilage **Supplement**

internal and external cartilage keeps trachea open

Gas exchange surface

large surface area thin surface good blood supply
good ventilation

Ventilation **Supplement**

muscles and ribs diaphragm volume and pressure

Inspired vs expired air

oxygen less carbon dioxide more water vapour more
limewater test

Exercise and breathing

rate and depth increase count breaths per minute

Carbon dioxide stimulus **Supplement**

blood CO₂ rises detected by brain

Protection **Supplement**

goblet cells and mucus ciliated cells