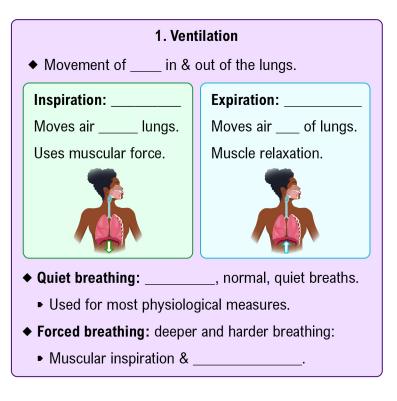
TOPIC: INTRODUCTION TO LUNG PHYSIOLOGY

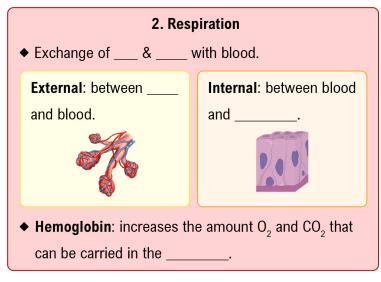
Ventilation and Respiration

EXAMPLE

◆ "Breathing" can be broken into ___ components.



4. Movement of air into and out of the lungs:



Match the following descriptions to the appropriate terms below. a. Respiration b. Inspiration c. Expiration d. Ventilation 1. Movement of air out of the lungs: ____ 2. Exchange of gases with the blood: ____ 3. Movement of air into the lungs: ____

TOPIC: INTRODUCTION TO LUNG PHYSIOLOGY

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The exchange of gases between blood and the air in the lungs is known as:

a) Ventilation.

b) Cellular Respiration.

c) External Respiration.

d) Internal Respiration.

PRACTICE

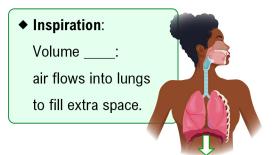
Most physiological measures are taken during eupnea, or quiet breathing. This means that:

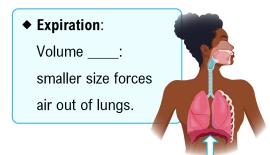
- a) Ventilation is a passive process that does not use muscular force.
- b) Muscular force is used for inspiration but not expiration.
- c) Muscular force is used for expiration but not inspiration.
- d) Muscular force is used for both inspiration and expiration.

TOPIC: INTRODUCTION TO LUNG PHYSIOLOGY

Ventilation

- ◆ Ventilation is performed by changing the volume of the _____ cavity.
 - ▶ Lungs are the _____ structure in thoracic cavity that can change size significantly.





- ◆ Important features of lungs that makes this possible:
 - _____: can expand but will naturally recoil.
 - _____ system: the lungs are connected to the atmospheric air.
 - ▶ Passive: lungs contain no _____; rely on muscles of the chest and abdomen.

PRACTICE

Ventilation occurs when:

- a) Muscles cause the volume of the thoracic cavity to change.
- b) The gas molecules pass between air and the blood.
- c) Changes in pressure cause a change in the size of the thoracic cavity.
- d) The lungs contract and relax, altering the size of the thoracic cavity.