

Specialised gas exchange surfaces

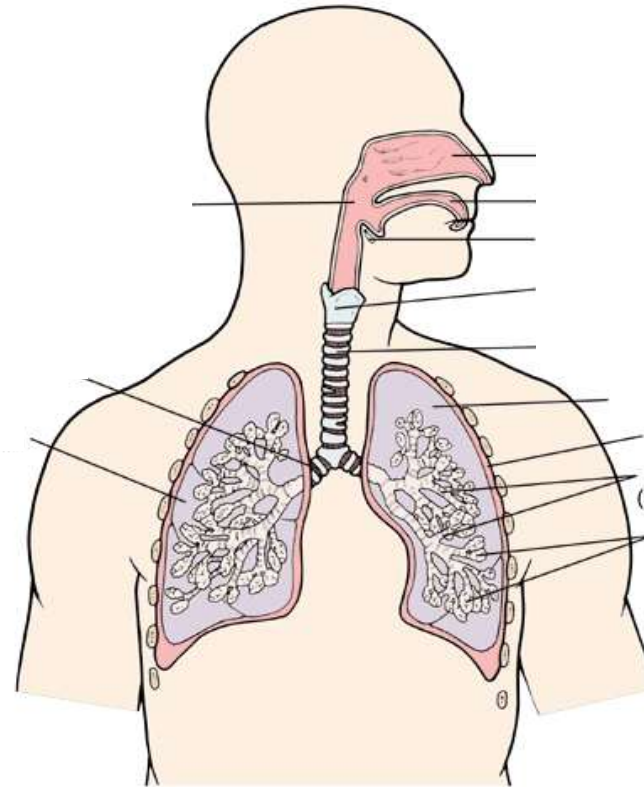
List some examples of gas exchange surfaces

List four features of effective gas exchange surfaces

- 1.
- 2.
- 3.
- 4.

Describe specific features of the lungs that are adapted for effective gas exchange.

Label the parts of the human respiratory system

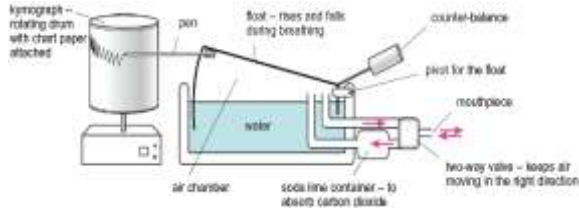


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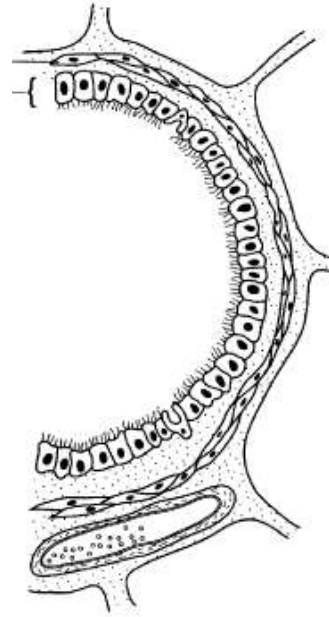
How does each listed feature change or act?	Inhaling (inspiration)	Exhaling (expiration)
The diaphragm		
Intercostals muscles		
Volume of chest cavity		
Pressure in chest cavity		
Air movement		
Overall effect on lungs		

Measuring lung function

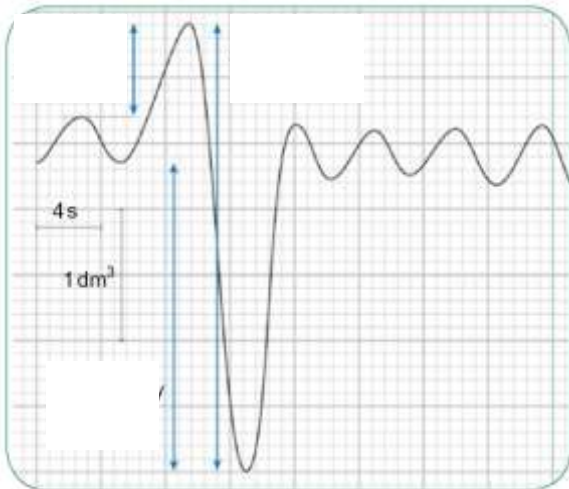
Using this diagram, explain how a spirometer can be used to measure lung function



Specialised tissues within the lungs. Label all the specialised cells in this diagram of a bronchiole. Use the space to add notes on the functions of these cells.



Spirometer trace. Label the vital capacity, total lung capacity, residual volume, expiratory reserve volume and inspiratory reserve volume.



Measuring oxygen consumption. Use the graph below to calculate the oxygen consumption of this patient.

