

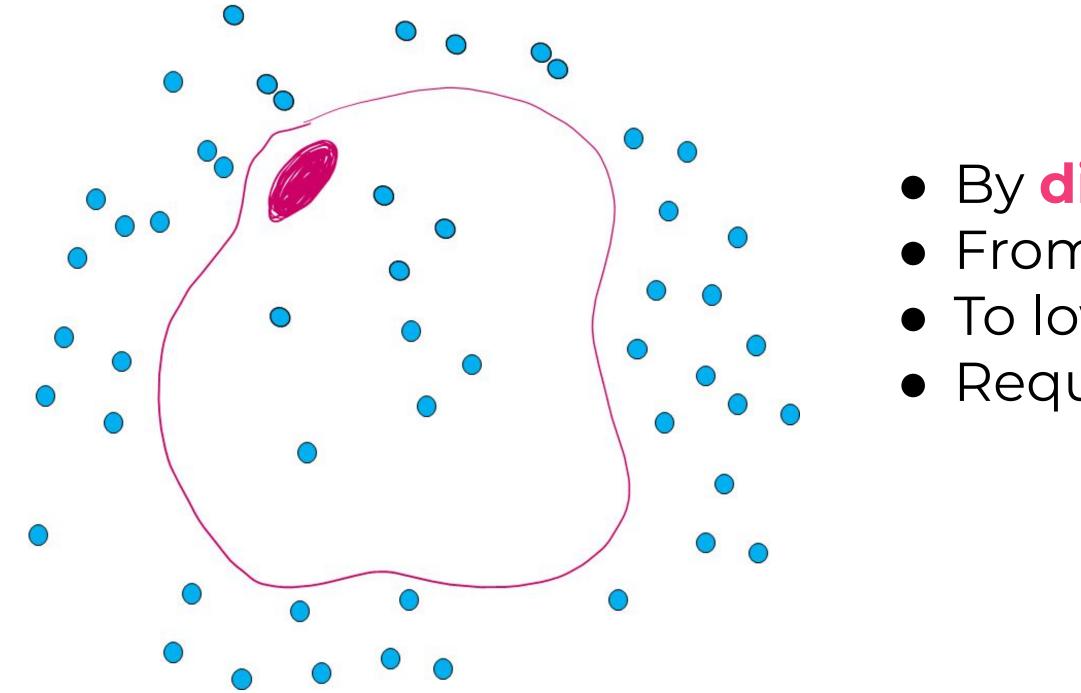
Biological Systems and Processes Lesson 3 - The Respiratory System

Miss Hindle



Describe how oxygen will get into this cell

Think of 3 keywords that you might put in your answer

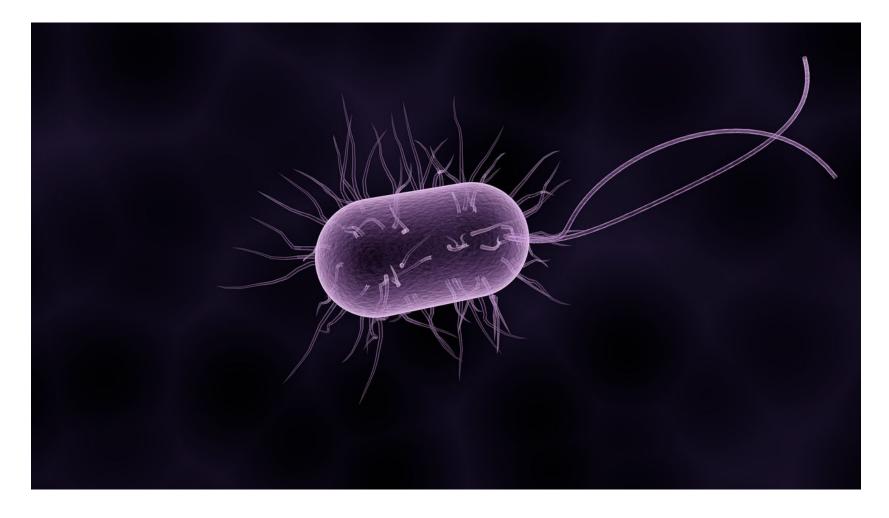


• By diffusion • From high **concentration** • To low concentration • Requires no **energy**



Quick Quiz...

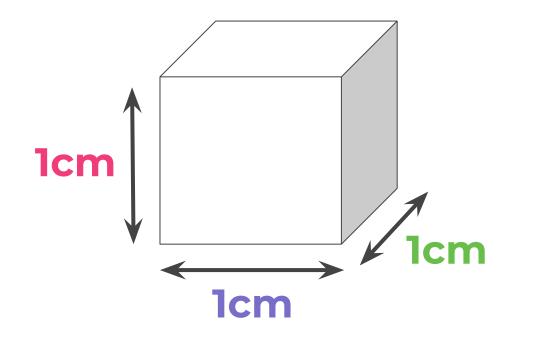
- How does a bacterium get oxygen into its 'body'?
- How do we get oxygen into our bodies?
- 3. Where does the oxygen then go?
- 4. Why do humans need a different method rather than just diffusion to get oxygen into the body?



Pixabay



Surface Area : Volume (SA:V) Calculation...

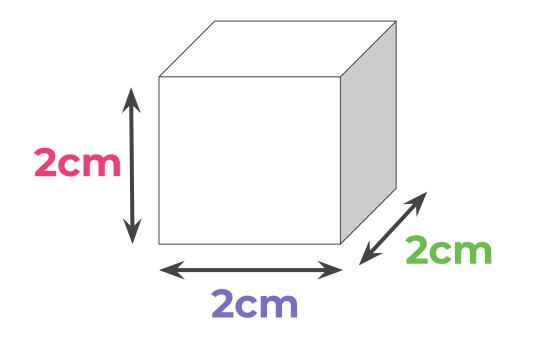


- 1. Surface area of one side =
- 2. Total surface area =
- 3. Volume =





Surface Area : Volume (SA:V) Calculation...



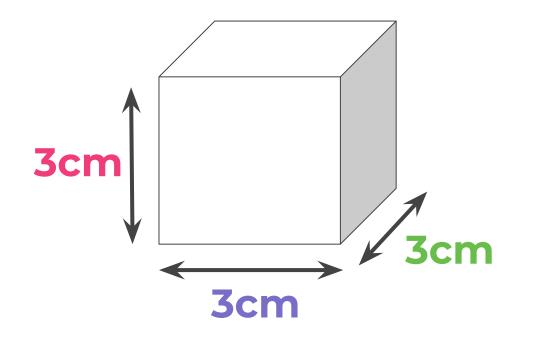


- 2. Total surface area =
- 3. Volume =





Surface Area : Volume (SA:V) Calculation...



- 1. Surface area of one side =
- 2. Total surface area =
- 3. Volume =





Quick Check...

Structure	D
trachea	Connects ea
bronchi	Where oxy
bronchioles	The smallest k
alveoli	Contains cart

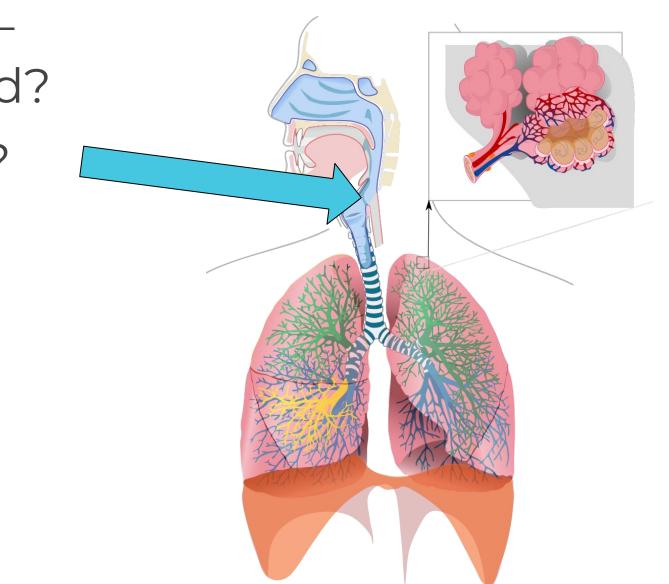
Description

- ach lung to the trachea
- /gen diffuses into the blood
- branches of the airways
- tilage, lined with mucus and cilia



Quick Check....

- 1. Where does gas exchange happen? A_
- 2. What is this part of respiratory system called?
- 3. How are the alveoli specialised for their job?
 - a.
 - b.
 - C.
 - d.



Creative Commons, Wikimedia





Explain how the alveoli help maximise the amount of gas exchange in the lungs.

WAGOLL The lungs have lots of alveoli, which increase the surface area for diffusion. Stated the adaptation Explained how the adaptation supports gas exchange

