

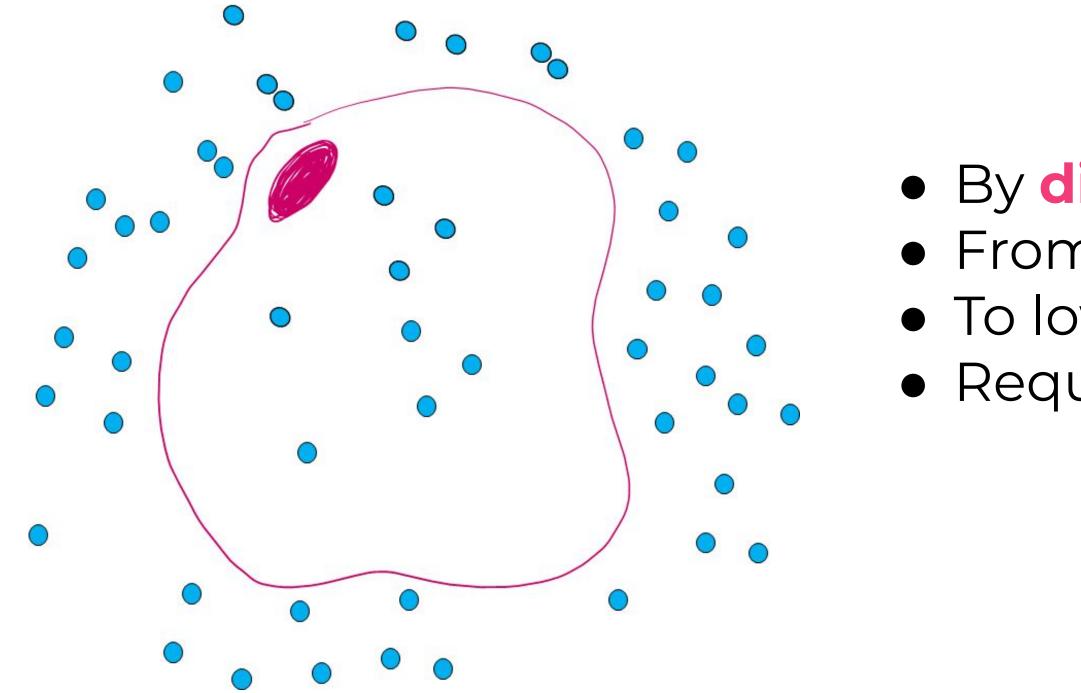
## **Biological Systems and Processes Lesson 3 - The Respiratory System**

Miss Hindle



### Describe how oxygen will get into this cell

Think of 3 keywords that you might put in your answer

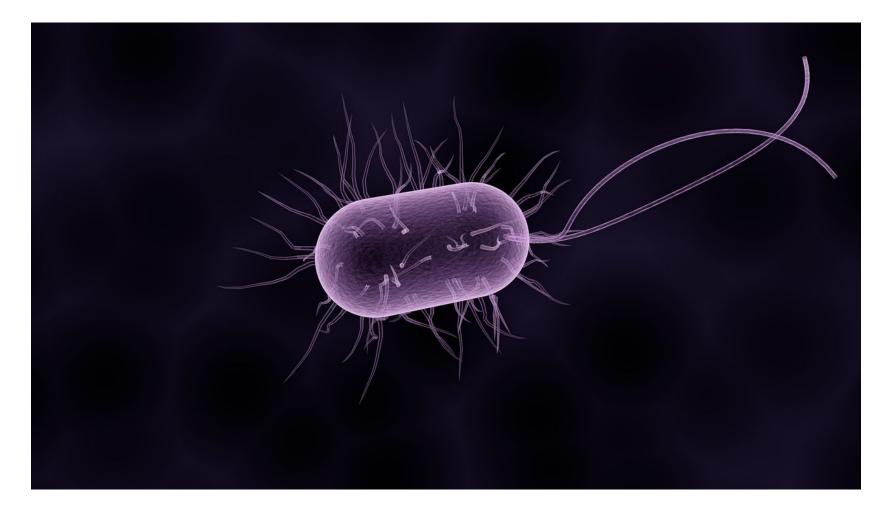


### • By diffusion • From high **concentration** • To low concentration • Requires no **energy**



# Quick Quiz...

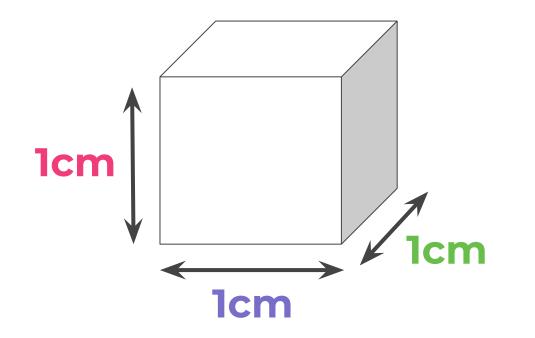
- How does a bacterium get oxygen into its 'body'?
- How do we get oxygen into our bodies?
- 3. Where does the oxygen then go?
- 4. Why do humans need a different method rather than just diffusion to get oxygen into the body?



Pixabay



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

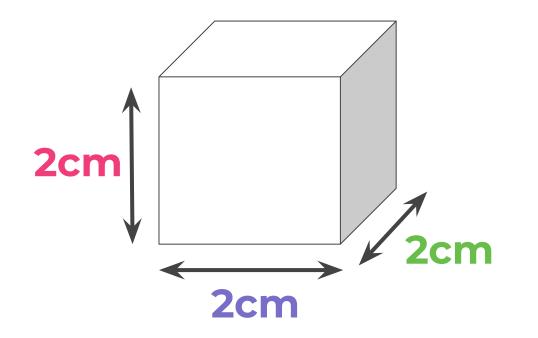


- 1. Surface area of one side =
- 2. Total surface area =
- 3. Volume =





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



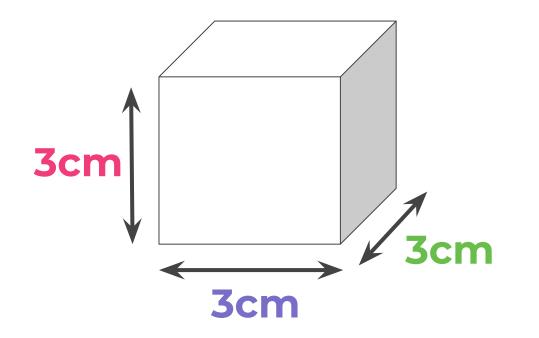


- 2. Total surface area =
- 3. Volume =





### 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

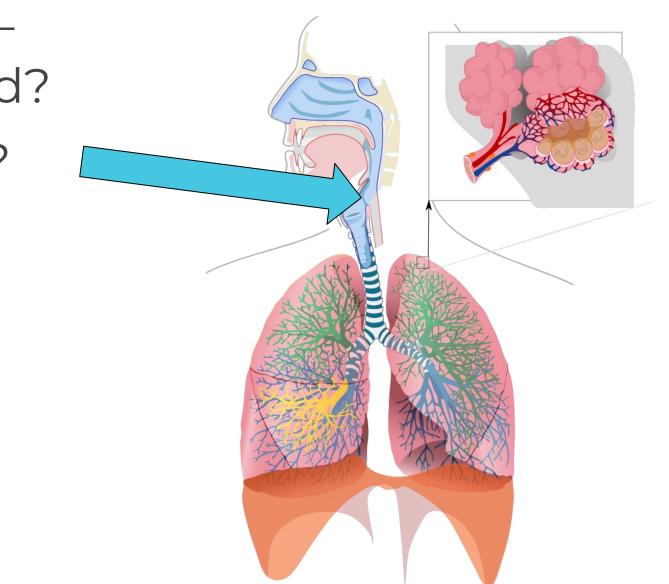
### Description

- 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.



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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

