

Classwork Task

Gas Exchange

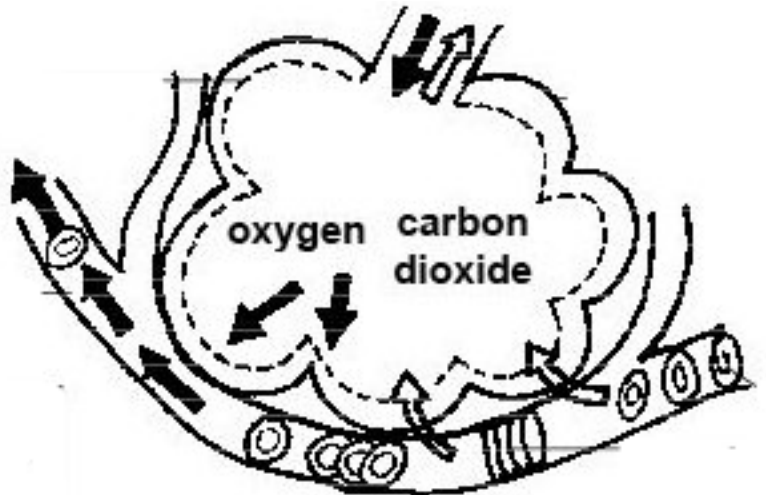
Estimated Time: 1 hours

Unit: 8B Respiration



This is a diagram of an alveoli. The blood going in is blue and leaving is red. *Can you colour the blood vessels to show this.*

There is a huge amount of surface area in the lungs. If the whole inside surface was laid out flat, it would easily cover a tennis court!!



This is a diagram of the inside of an alveoli. On this diagram:

- colour the blood cells either blue or red.
- add the labels to the diagram using the words below.

deoxygenated blood oxygenated blood
alveoli oxygen carbon dioxide
blood capillary

Draw a line to match the word to its meaning

oxygen



carbon dioxide



alveoli



blood capillary



deoxygenated blood



oxygenated blood



nitrogen



- The tiny blood vessel that surrounds the alveoli.
- The air sacs where oxygen enters and carbon dioxide leaves the blood.
- The gas that is used in the body to create energy.
- Blood that contains oxygen gas and is red.
- This gas is a waste product of respiration.
- The unreactive gas that makes up most of the air around us.
- Blood that contains no oxygen and is blue.

What are the names of the tubes that air travels down to get to the lungs (in order from biggest to smallest)?

How thick are the walls of the alveoli?

Which two gases diffuse (swap places) in the alveoli?

Where does the oxygen go once it is in the blood?

Use the words below to fill in the gaps showing the path of air coming in and out of the respiratory system (you will have to use each word twice).

