



# As Scientists, our big question is...

## What would a journey through your body look like? (Respiration and Circulation)



### REMEMBERING Prior Learning

### Oxygen

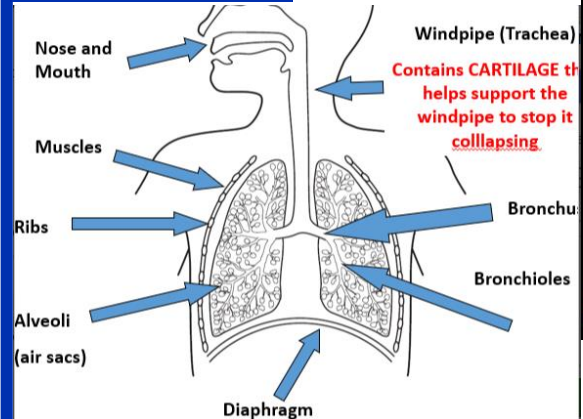
Your body needs a constant supply of oxygen. Oxygen is one of the main gases that make up air, and animals and plants need it to survive.

Our bodies get this oxygen by breathing.

We inhale, or breathe in air.



### UNDERSTANDING Sticky Knowledge



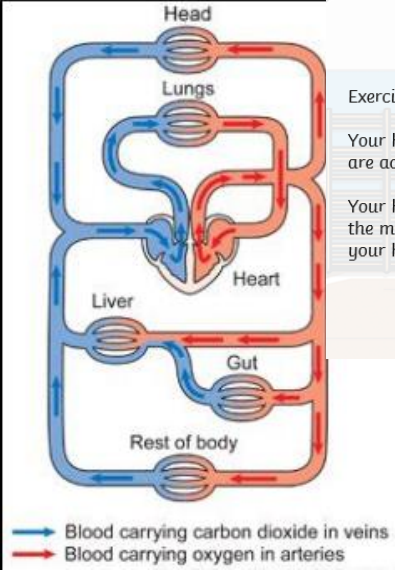
**The lungs contain alveoli, bronchioles and bronchioli which increase surface area for gas exchange.**

**Veins carry deoxygenated blood and arteries carry oxygenated blood.**

**Lung capacity is measured in  $cm^3$**

**Our heart is made up of 4 chambers which pump blood around our bodies.**

It is important to eat healthily and exercise regularly to keep our arteries healthy So they do not restricted blood supply (avoid furred arteries).

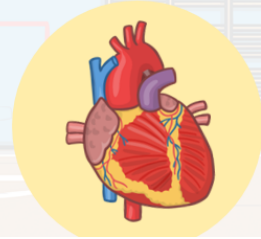


### Exercise Is Good for My Heart

Exercise is also very important for the organs inside your body.

Your heart becomes very strong when you are active and exercise.

Your heart is a muscle. This means that the more active you are, the stronger your heart gets.



### APPLYING My Aspirations

Biologists study life in all its different forms, researching important processes and how organisms relate to their environment.

There are a wide range of specialist jobs in the field of biology, including microbiologists, physiologists, geneticists, zoologists and ecologists.

### What are the definitions of each of these Science topic words?

(A) Respiration	(B) Circulation	(C) Lung capacity	(D) Deoxygenated blood	(E) Vein	(F) Aorta
The action of breathing.	Movement around something.	It refers to the volume of gas in the lungs at a given time	Blood that is not carrying oxygen.	Tubes that carry deoxygenated blood to the heart.	A chamber in the heart that pumps blood around the body.