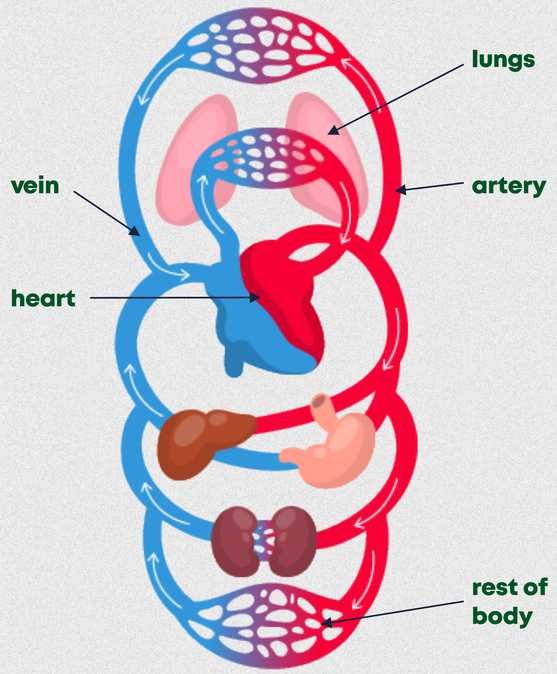
Science
PKC

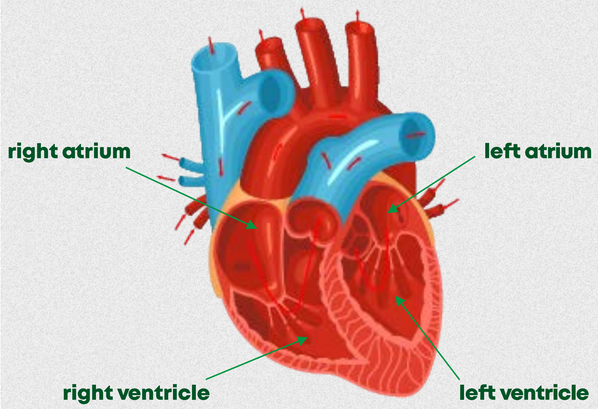
# Human body

PKC
Primary Knowledge Curriculum

## circulatory system




## the heart




## KEY VOCABULARY

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|---|---|
| circulatory system | bodily system made up of the **heart, blood vessels and blood** that delivers essential materials to cells whilst removing waste products |
| transport | the circulatory system **transports nutrients (from digested food) and water to every cell** as well as oxygen |
| atria | the plural of 'atrium'; the **upper chambers of the heart** |
| ventricles | the **lower chambers of the heart** |
| valves | found between the atria and ventricles they **open and close to allow the blood to flow through the heart** |
| aorta | the **largest artery supplying oxygenated blood** to the rest of the body |
| arteries | **carry blood with oxygen** from heart |
| veins | **carry blood depleted of oxygen** back to heart |
| capillaries | **tiny vessels** where oxygen gets transferred to cells |
| pulse rate | the **number of heart beats per minute** |

| arteries | veins | capillaries |
|---|---|---|
| | | |
| carry blood away from the heart<br><br>oxygenated blood (most arteries) | carry blood back to the heart<br><br>deoxygenated blood (most veins) | transfers oxygen from the blood stream to other tissues in the body |

| | |
|---|---|
| **blood pressure** | the force with which our blood is pushed around our bodies (if our blood pressure is too high or low it can be dangerous for us) |
| **heart rate** | the number of squeezes or beats of the heart per minute (when the heart beats it pumps blood around the body) |
| **drugs** | human heart rate and blood pressure can be altered by taking drugs - sometimes this is needed, and doctors administer drugs to help patients (illegal drugs can damage human hearts and change blood pressure which can be very dangerous) |