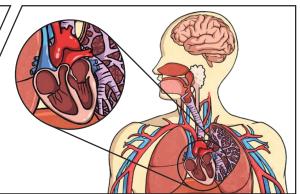
Key Vocabulary	
circulatory system	A system which includes the heart, veins, arteries and blood transporting substances around the body.
heart	An organ which constantly pumps blood around the <b>circulatory system</b> .
blood vessels	The tube-like structures that carry blood through the tissues and organs. Veins, arteries and capillaries are the three types of blood vessels.
oxygenated blood	Oxygenated blood has more oxygen. It is pumped from the heart to the rest of the body.
deoxygenated blood	<b>Deoxygenated blood</b> is blood where most of the oxygen has already been transferred to the rest of the body.

The **heart** pumps blood to the lungs to get oxygen.

It then pumps this

oxygenated blood around the body.



Mammals have hearts to with . body from four chambers. Notice . bodu blood that the how to has come from the body is, lungs deoxygenated, and the from blood that has come from lungs the lungs is oxygenated again. The blood isn't bodu actually red and blue: we just show it like deoxygenated oxygenated that on a diagram. blood blood

Capillaries are the smallest **blood vessels** in the body and it is here that the exchange of water, nutrients, oxygen and carbon dioxide takes place.

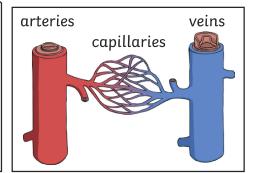
Arteries carry

oxygenated

blood away

from the

heart.

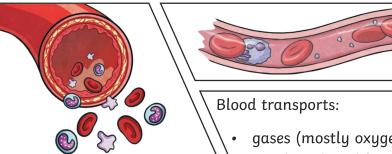


Veins carry deoxygenated blood toward the heart.

If you linked up all of the body's blood vessels, including arteries, capillaries, and veins, they would measure over 60,000 miles.



## Key Vocabulary A substance containing natural or man-made drug chemicals that has an effect on your body when it enters your system. alcohol A **drug** produced from grains, fruits or vegetables when they are put through a process called fermentation. nutrients Substances that animals need to stay alive and healthy.



The liquid part of blood contains water and protein. This is called plasma.

gases (mostly oxygen and carbon dioxide);

**nutrients** (including water);

waste products.

Plasma is liquid. The other parts your blood are solid. through your body.

have negative

the body.



Red blood cells

effects

oxygen

carry

Platelets help you stop bleeding when you get hurt.



White blood cells fight when you're sick.

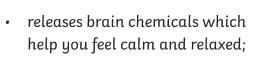
Drugs, alcohol and smoking A healthy diet involves eating the right types of **nutrients** in the right amounts.







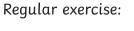




increases the amount of oxygen

- strengthens bones.

getting ill.



- strengthens muscles including the heart muscle:
- improves circulation;

around the body;

