

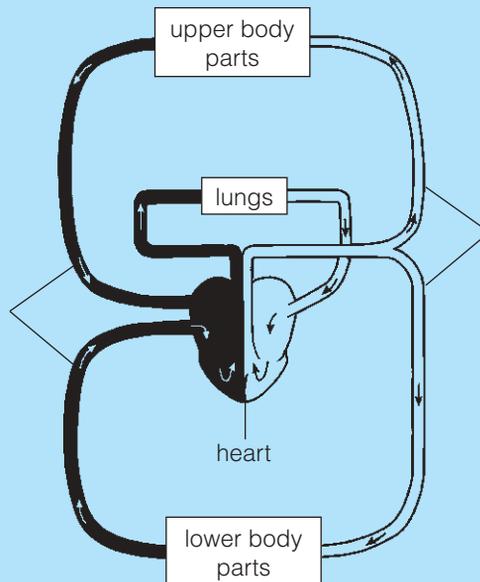
# The Circulatory System

- The **circulatory system** consists of the **heart**, **blood** and **blood vessels**.
- The heart pumps a supply of blood to the various parts of the body.
- **Blood** is made up of **plasma**, **red blood cells**, **white blood cells** and **platelets**.
- Blood travels in **blood vessels**. They are the **arteries**, **veins** and **capillaries**.
- **Blood transports oxygen, digested food and water** to the cells in all parts of the body.
- **Blood** also **transports carbon dioxide and waste materials** to the lungs to be exhaled or to special organs for removal respectively.
- The circulatory system works very closely with the respiratory and digestive systems.

Blood with little oxygen and a lot of carbon dioxide flows in an artery from the heart to the lungs so that the carbon dioxide can be removed.

These blood vessels carry blood rich in carbon dioxide back to the heart.

By the time the blood has circulated round the body, it has lost most of its oxygen and picked up a lot of carbon dioxide. This carbon dioxide-rich blood flows in a vein back to the heart.



Blood picks up oxygen from the lungs and this oxygen-rich blood flows in a vein back to the heart.

These blood vessels carry blood rich in oxygen to all the cells of your body.

From the heart, this oxygen-rich blood is pumped into an artery and flows to all parts of the body where it is needed

**A simpler version to show blood flow in the circulatory system**

Adapted:

Science Partner Upper Block 5/6

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