#### **Key Facts**

## THE CIRCULATORY SYSTEM -

A group of organs and vessels which transport blood around the body. It consists of:

# Transports oxygen and nutrients to the lungs and tissues Forms blood clots to prevent.

- The heart pumps oxygen-rich blood to every cell in the body.

  Blood vessels

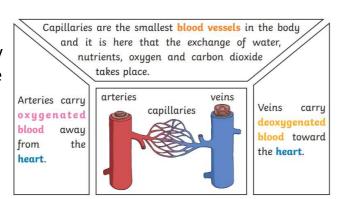
  A network of arteries
- Brings waste produces to organs
   Regulates body temperature

A network of arteries and veins that provide the pathway for blood to

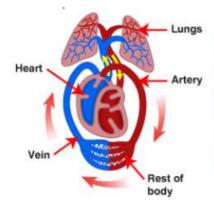
The circulatory system allows blood to circulate and transport nutrients, oxygen, hormones and blood cells to and from the cells in the body to provide nourishment and help fight diseases.

# **BLOOD VESSELS**

These are the tubes that carry blood around the body. There are three main types:



## THE HEART

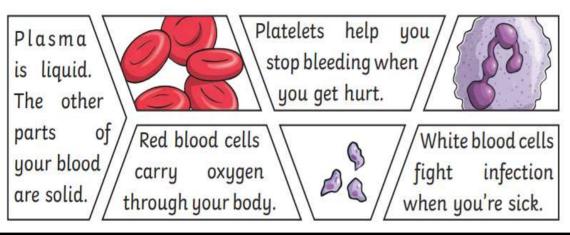


The heart pumps blood to the lungs to get oxygen. The oxygenated blood is then pumped around the body.

Arteries carry oxygenated blood away From the heart.

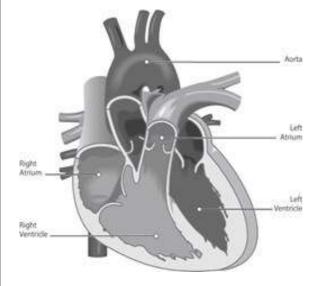
Veins carry de- oxygenated blood towards the heart.

# **BLOOD**





Year 6 Science
Spring 2
The Circulatory System
Diet, drugs and lifestyle
Science strand Biology



# Vocabulary

Word	Definition
Arteries	Muscular-walled tubes which carry blood from the heart to the rest of the body.
Atrium	Each of the two upper cavities of the heart from which blood is passed to the ventricles.
Capillaries	Thin blood vessels that connect arteries to veins.
Circulatory system	It is made up of the blood, heart and blood vessels. It delivers nutrients, water, and oxygen to the body cells and carries away wastes such as carbon dioxide that body cells produce.
Plasma	Blood is made up of blood cells and plasma. It is a yellowish liquid that has nutrients, proteins, hormones and waste products.
Pulse	A rhythmical throbbing of the arteries as blood is propelled through them, typically as felt in the wrists or neck.
Red blood cells	Red blood cells carry fresh oxygen throughout the body using a protein called haemoglobin. They also carry carbon dioxide to the lungs for removal.
Veins	Muscular-walled tubes which carry blood from the body to the heart.
Balanced diet	A diet consisting of a variety of different types of food and providing adequate amounts of the nutrients necessary for good health.
Calories	A unit for measuring an amount of energy produced by food.