OGUN DIGICLASS

CLASS: PRIMARY SCHOOL

SUBJECT: BASIC SCIENCE

TOPIC: HUMAN CIRCULATORY SYSTEM





THE HUMAN CIRCULATORY SYSTEM

AFOLAKE SONEYE

OBJECTIVES

- Explain the meaning of human circulatory system.
- •Identify the 3 main parts of the circulatory system.
- State the functions of the main parts.
- List the 3 blood vessels.



INTRODUCTION

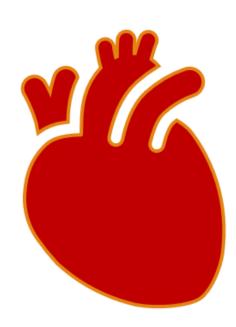
Human Circulatory System refers to the continuous movement or flow of blood in the body involving the **heart** and the **blood vessels**.

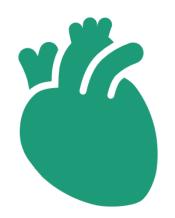
This system is one of the most important in the body.

It is made up of 3 main parts:

- ☐The heart
- ☐The blood
- ☐The blood vessels.

This system is also known as the Cardiovascular system.



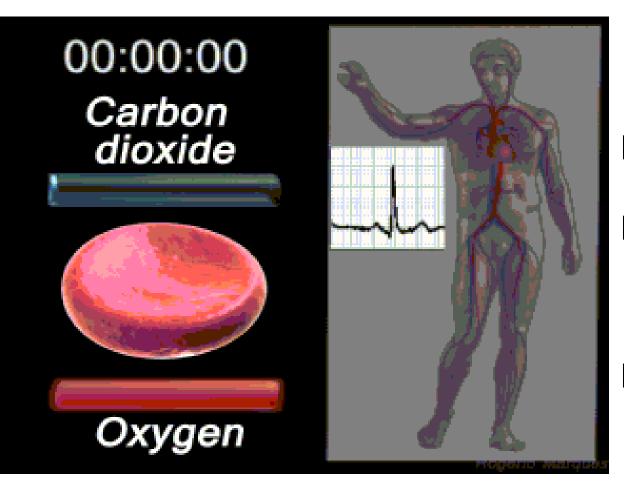


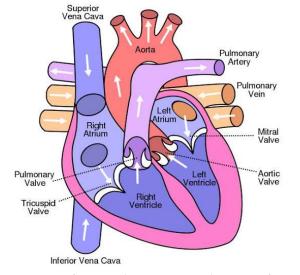
THE HEART

Your heart is made up of muscles that pumps blood around your body via blood vessels (tubes).

The heart is inside your chest, protected by bones - the ribs and breast bone.

When the heart pumps, it beats - we measure the heartbeat via the pulse - easily found on your wrist and neck.





- ☐ Your heart is about the size of your fist.
- □In most adults it beats about 70 times a minute (70 bpm).
- ☐ You cannot normally live for more than 5 minutes if your heart stops beating.

It is a liquid tissue containing cells suspended freely in a watery medium and it is the means of transporting dissolved nutrients.	
The red color of the blood is due to the presence of Haemoglobin.	
It serves as transport medium.	
Regulation of body temperature.	BLOOD
It defends the body against diseases.	
It maintains a constant internal environment.	
Production of antibodies.	
Formation of clotting over wound to control bleeding.	

THE LUNGS

Your lungs receive the air you breathe in through your nose.

When you breathe in, the lungs puff-out or inflate, and deflate when you breathe out.

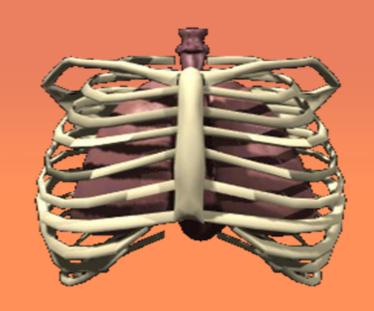
From the air, they take the useful part - oxygen (a gas), and convert it for use in the body via the bloodstream.

The blood swaps carbon dioxide (the waste material) for oxygen in the lungs. This is why the lungs are often said to convert gases.

The Lungs



- ☐ You have 2 lungs.
- ☐ Your lungs are protected by your ribcage.







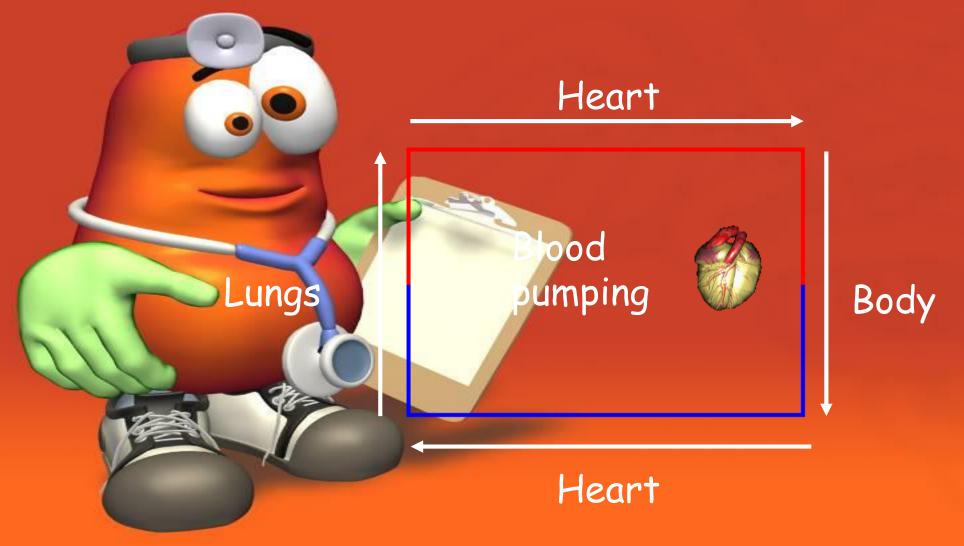
BLOOD VESSELS

- ☐ The blood vessels run throughout the body supplying oxygen to every cell in the body.
- ☐ They are made up of 3 types **Arteries**, **Veins** and **Capillaries**.

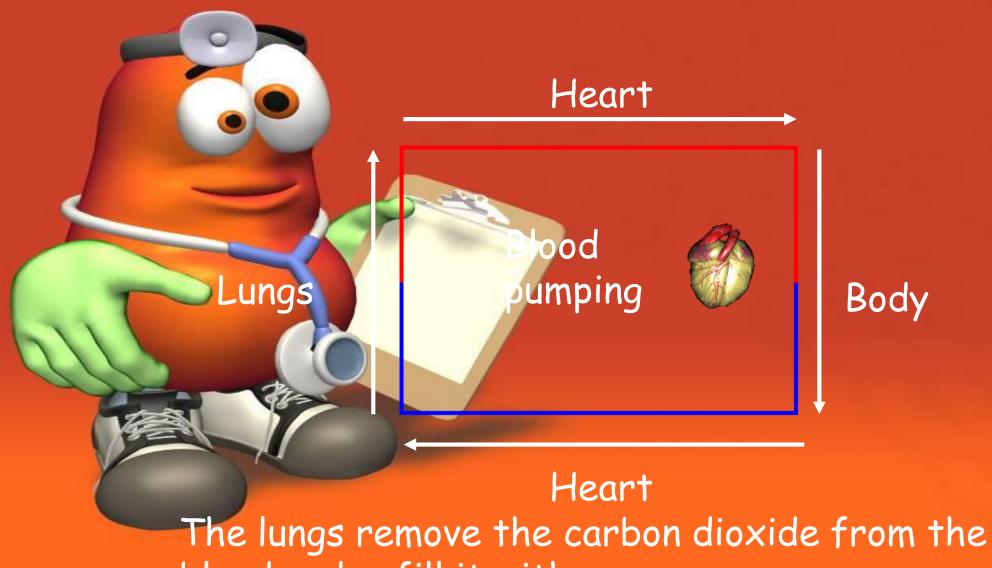
Arteries: They are thick blood vessels. They transport *oxygenated blood* away from the heart to the body cells.

Veins: They are thick blood vessels. They transport *deoxygenated blood* back to the heart from the body cells.

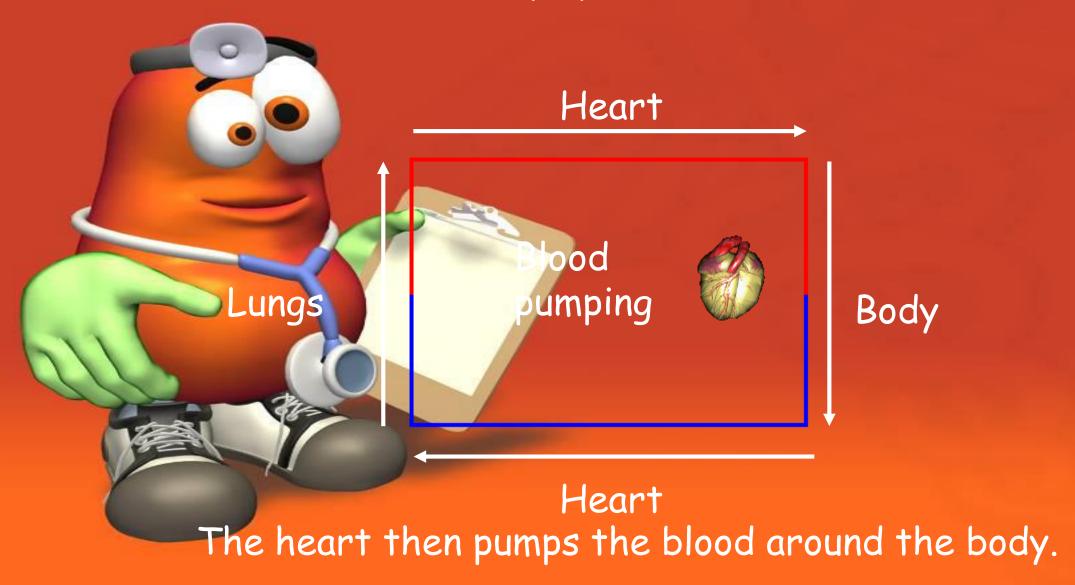
Capillaries: They are the tiny network of blood vessels that join the veins to the arteries.

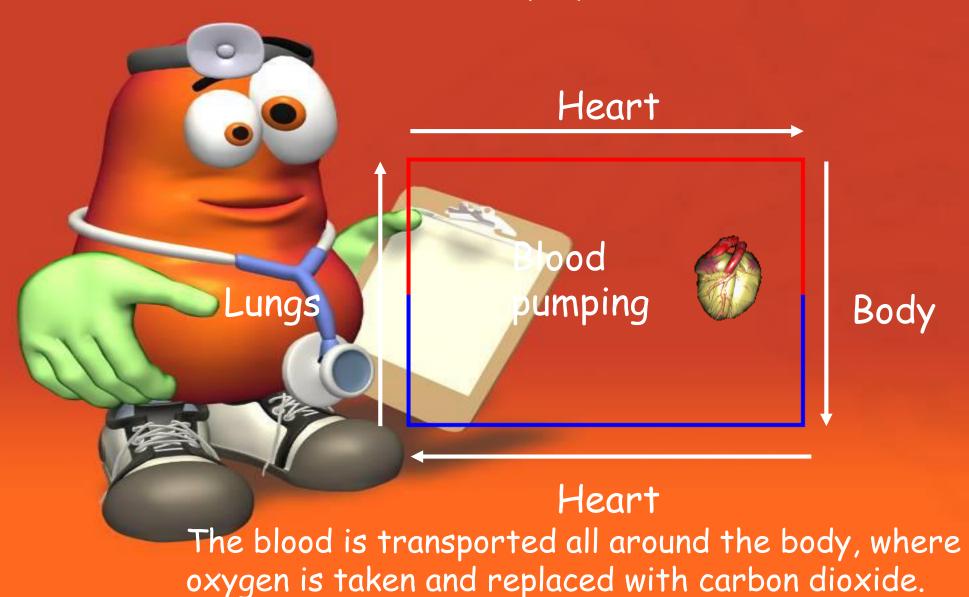


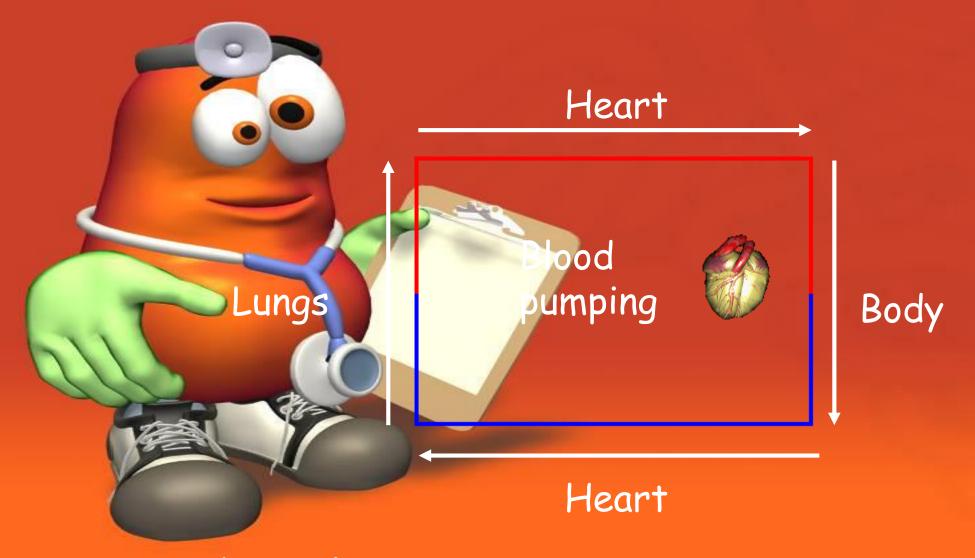
The heart pumps blood to the lungs



blood and refill it with oxygen.







The cycle starts again



Define Human Circulatory System

Evaluation



List 3 components of the circulatory system



Mention 2 functions of blood

Assignment



Your heart pumps blood around your body. True or False



Your blood carries carbon-dioxide to all the parts that need it. True or False



The ribs are bones that protect the heart and lungs. True or False