AURUM CADEMY GOBAL

Science (Grade 5)



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Chapter 1
THE CIRCULATORY SYSTEM

🫀 *"Your heart beats nearly 100,000 times every day to keep you alive!"*

Learning Objectives

After completing this chapter, you will be able to:

- ✔ Identify the parts of the circulatory system.
- ✔ Explain the functions of blood.
- ✔ Describe how blood circulates in the body.
- ✔ Differentiate between arteries, veins and capillaries.
- ✔ Understand ways to keep the heart healthy.

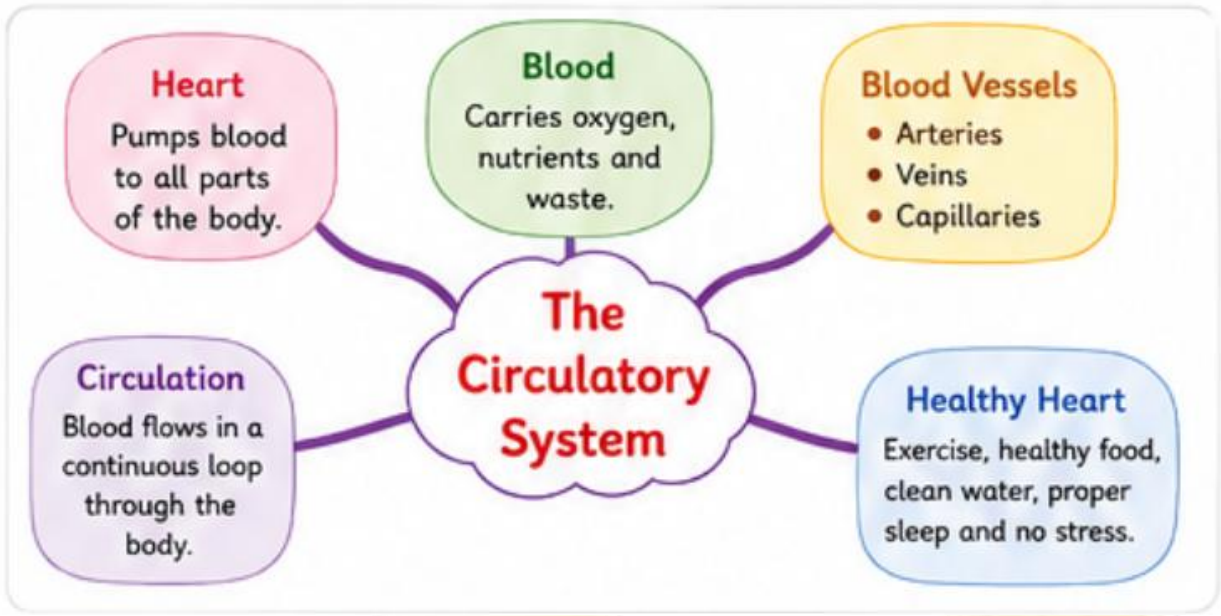
Quick Notes

What is the Circulatory System?

The circulatory system is the body's **transport system**.
It carries:

- Oxygen
- Nutrients
- Water
- Hormones
- Waste materials

to different parts of the body.

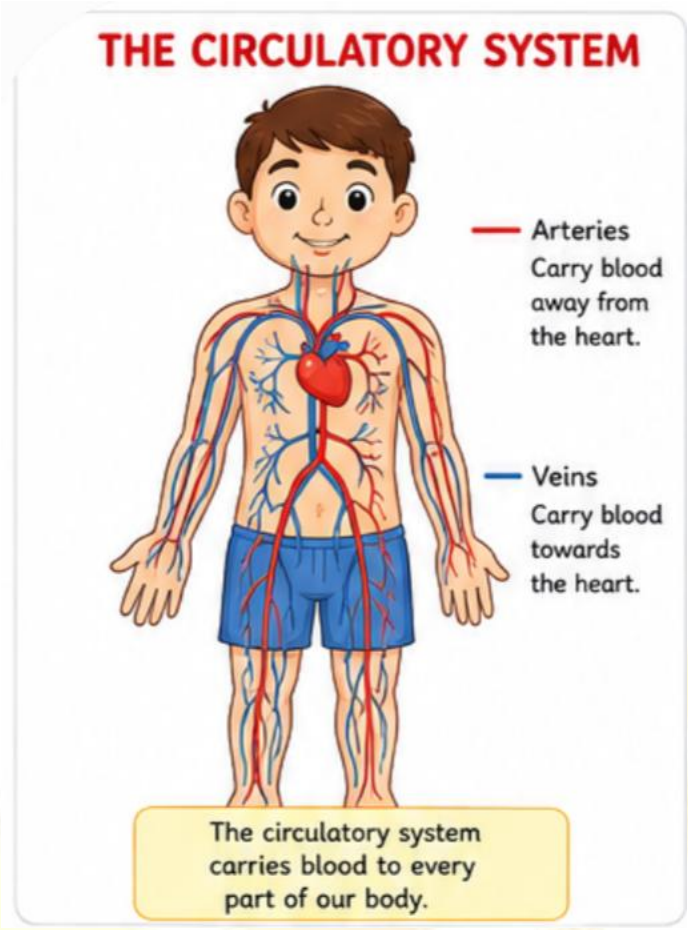


Remember

- The heart is the main organ of the circulatory system.
- Blood travels through blood vessels.

Main Parts

Organ	Function
Heart	Pumps blood
Blood	Carries oxygen and nutrients
Blood Vessels	Carry blood throughout the body



Did You Know?

❤️ An adult heart is about the size of your fist.

Concept Check 1

Fill in the blanks.

1. The _____ pumps blood.
2. Blood carries _____ to all body parts.

The Heart

Quick Notes

The heart is

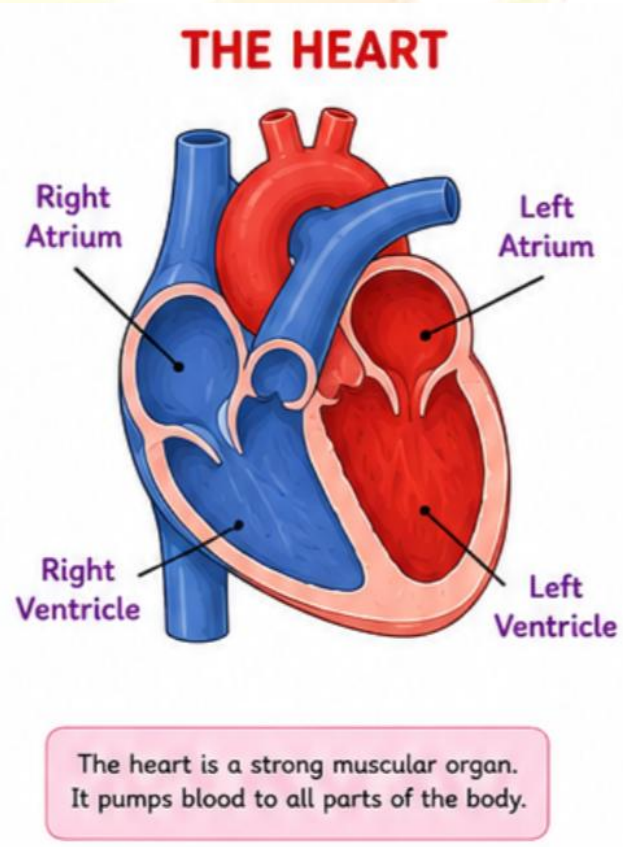
- Muscular
- Hollow
- About the size of your fist

It is located

- ✔ Between the lungs
- ✔ Slightly towards the left side

Functions

- ✔ Pumps blood continuously
- ✔ Supplies oxygen
- ✔ Removes waste



Remember

Your heart never takes a holiday!

Concept Check -Tick the correct answer.

The heart is

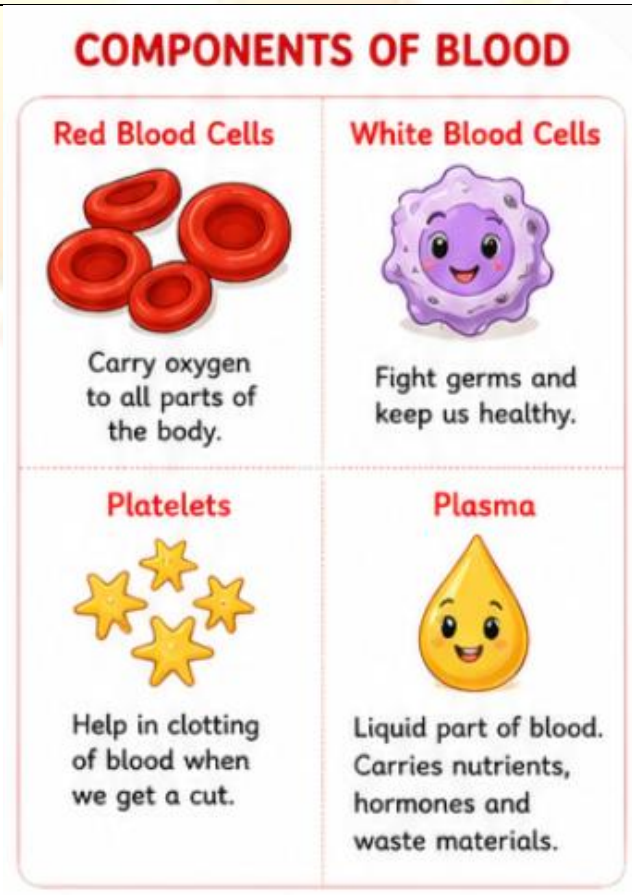
☐ A bone

☐ A muscle

☐ A nerve

Blood- Blood has four main components.

Component	Function
Plasma	Carries nutrients
Red Blood Cells	Carry oxygen
White Blood Cells	Fight germs
Platelets	Help blood clot



Fun Fact

One drop of blood contains millions of red blood cells.

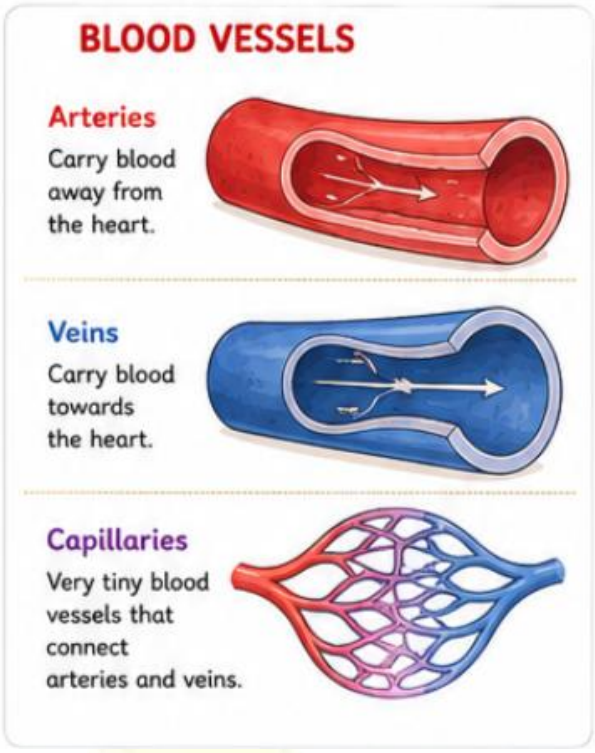
Concept Check-Match the following.

Red Blood Cells → _____
White Blood Cells → _____
Platelets → _____

Blood Vessels

Types of Blood Vessels

- ✔ Arteries
- ✔ Veins
- ✔ Capillaries



Arteries

Carry blood **away from the heart**.

Veins

Carry blood **towards the heart**.

Capillaries

Very tiny blood vessels.
They connect arteries and veins.

Remember

A = Away
Arteries → Away from heart