

**The Primary Stage of Grades (4-5)  
School Year 2022 - 2023**

**Name:** \_\_\_\_\_

**Subject:** Science

Study sheet #3: Human Circulatory  
System

**Date:** / /

**Class:** Grade Five National (All Sections)

**Objective/s:**

Identify different organs of human circulatory system and the function of each organ.

**Human Circulatory System:**

The function of the circulatory system is to transport oxygen and nutrients to all body cells and carry waste products away from cells to the organs responsible for getting them out of the body.

**Organs of the circulatory system:**

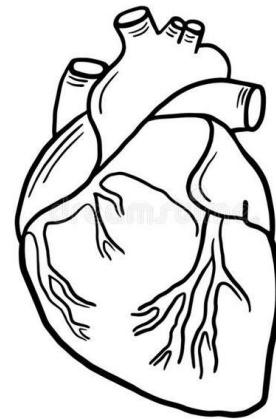
1. **The Heart**
2. **Blood vessels**
3. **Blood**

## 1. The heart:

The heart is a powerful muscle that is located between your lungs, protected by the ribcage.

The heart pumps blood to the lungs to get oxygen.

The heart pumps the oxygenated blood to the rest of the body.

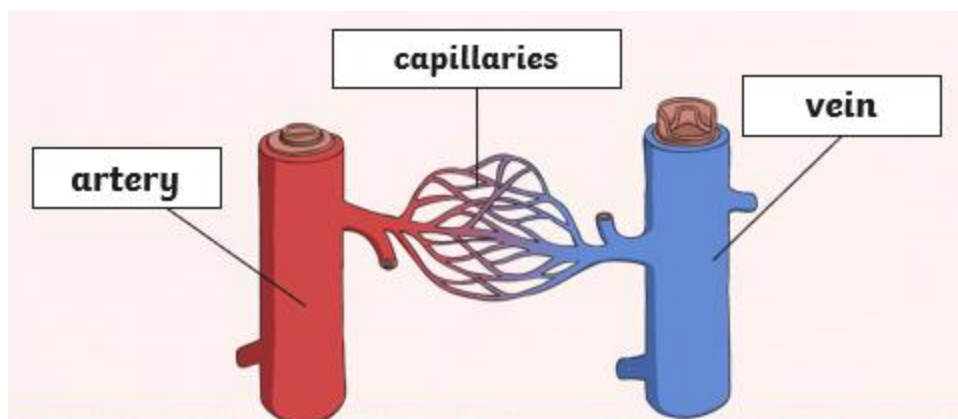


## 2. Blood Vessels:

1. **Arteries** – carry blood **away** from the heart.

2. **Capillaries** – Join veins and arteries and have very thin walls to enable **exchange** of oxygen with body.

3. **Veins** – carry blood from capillaries back to the heart.

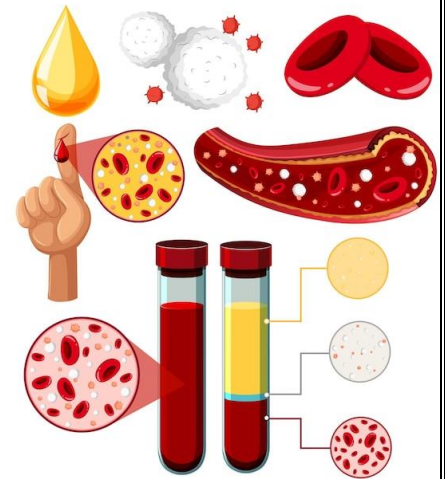


### 3. **Blood:**

Blood is a fluid that transports oxygen and nutrients to cells and carries away carbon dioxide and other waste products from the cells.

#### **Blood has four main components:**

1. **Red Blood Cells:** They transport oxygen.
2. **White Blood Cells:** They fight diseases.
3. **Plasma:** The liquid part of blood.
4. **Platelets:** Responsible for blood clotting.



#### **Circulation of blood in the body:**

- Oxygen poor blood gets to the right side of the heart.
- The right side of the heart pumps blood to the lungs, where gas exchange will take place, and blood will become oxygenated.
- The Oxygen rich blood from the lungs gets into the left side of the heart.
- The left side of the heart pumps Oxygen rich blood to all parts of the body.

