Biology

Human circulatory system

- Circulatory system is a system that moves blood around the body
- The right side of heart carries deoxygenated blood
- This means the blood has low Oxygen and has more carbon dioxide

- The left side of heart carries oxygenated blood
- This means blood has a lot of oxygen

Important blood vessels

Pulmonary artery

This blood vessel carry deoxygenated blood from heart to lungs

Capillaries in the lungs

These are very tiny blood vessels were oxygen goes into the blood and carbon dioxide comes out

Vena cava

- All the veins in the blood join together to make this big main vein
- It brings deoxygenated blood back to the heart

Pulmonary vein

- This blood vessel carries oxygenated blood from lungs to the heart

Aorta

- This is the biggest artery
- It carries oxygenated blood From the heart to the whole body

What happens in the body

- Blood with a lot of oxygen goes from the heart to the blood cells
- The cell uses Oxygen and glucose to make the energy
- the cells make carbon dioxide and waste
- the blood takes away this carbon dioxide and waste

Double circulatory system

Humans have double circulatory systems which means to loops

Loop 1

- **from heart to lungs and from lungs to heart**

Loop 2

- **from heart to body and from body to heart**

Why is this good

- **A double circulatory system is you helpful because it allows higher blood pressure**
- **higher blood pressure means faster blood flow**
- **faster blood flow means more oxygen reaches the body quickly**

What things are transported in the blood

The blood transports

- **Oxygen**
- **Carbon dioxide**
- **Dissolved food molecules**
- **Hormones**
- **Antibodies**
- **Urea**
- **and other waste products**